

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-01-01	None: CLOSED HOLIDAY(LO) Remote.	CLOSED HOLIDAY(LO)	CLOSED HOLIDAY(LO)
WED 2019-01-02	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 7.6 ADD: Change: Set to Blue X stage setting of 15.65 instead of 7.6 Eavesdrop.	Levy Holden et al(UCO) Remote.	
THU 2019-01-03	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
FRI 2019-01-04	Cass: KAST Woo et al(FOREIGN) Gr: gr1 600/5000; Dich: d46; polarWheel. Eavesdrop. Support Astronomer	Levy Kane et al(UCR) Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-01-05 New Moon	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 7.6 ADD: Change: Set to Blue X stage setting of 15.65 instead of 7.6 Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-01-06	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. Eavesdrop. CHANGE: Remote	Levy Paul Robertson(UCI) Remote. Support Astronomer	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-01-07	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. Eavesdrop.	Levy Hirsch et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-01-08	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 7.6 ADD: Change: Set to Blue X stage setting of 15.65 instead of 7.6 Eavesdrop.	Levy Kane et al(UCR) Remote.	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.
WED 2019-01-09	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Vogt et al(LO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.
THU 2019-01-10	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-01-11	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-01-12	Cass: KAST Suess et al(UCB-A) Gr: gr2 600/7500; Dich: d55; polarWheel. ADD: dMirror; gMirror	Levy Holden et al(UCO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r i' Eavesdrop.
SUN 2019-01-13 First Quarter	Cass: KAST Suess et al(UCB-A) Gr: gr2 600/7500; Dich: d55; polarWheel. ADD: dMirror; gMirror	Levy Paul Robertson(UCI) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V CHANGE: Filters U B V CHANGE: Filters U B V R Remote.
MON 2019-01-14	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Dressing et al(UCB-A) Remote. Support Astronomer	CLOSED CLOSED(LO)
TUE 2019-01-15	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 7.6 ADD: Change: Set to Blue X stage setting of 15.65 instead of 7.6 Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CLOSED CLOSED(LO)
WED 2019-01-16	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r i' Eavesdrop.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-01-17	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-01-18	Cass: ShARCS_LGS Ammons et al(LLNL) Filters: Permanent filter set only. Eavesdrop.	Levy Paul Robertson(UCI) Remote.	CCD-C2 Kosiarek et al(UCSC) Filters B V R Z Remote.
SAT 2019-01-19	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH<sub>4</sub> 1.2 &#956;m, H continuum, K continuum Eavesdrop. Support Astronomer	Levy Vogt et al(LO) Remote.	CCD-C2 Kosiarek et al(UCSC) Filters B V R Z Remote.
SUN 2019-01-20 Full Moon	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH<sub>4</sub> 1.2 &#956;m, H continuum, K continuum Eavesdrop. Support Astronomer	Levy De Rosa et al(UCB-A) Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
MON 2019-01-21	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH<sub>4</sub> 1.2 &#956;m, H continuum, K continuum Eavesdrop.	Levy Bolte et al(LO) Remote. Support Astronomer	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.
TUE 2019-01-22	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH<sub>4</sub> 1.2 &#956;m, H continuum, K continuum Eavesdrop.	Levy Holden et al(UCO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.
WED 2019-01-23	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH<sub>4</sub> 1.2 &#956;m, H continuum, K continuum Eavesdrop.	Levy Paul Robertson(UCI) Remote. Levy Kilpatrick et al(UCSC) ; N/A Remote.	NIROSETI Wright et al(UCSD) NIROSETI Eavesdrop.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-01-24	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-01-25	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SAT 2019-01-26	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V CHANGE: Filters U B V CHANGE: Filters U B V R IGNORE: Remote. ADD: Local
SUN 2019-01-27 Last Quarter	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 7.6 ADD: Change: Set to Blue X stage setting of 15.65 instead of 7.6 Eavesdrop.	Levy Paul Robertson(UCI) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-01-28	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. IGNORE: Eavesdrop. ADD: Remote Support Astronomer	Levy Hirsch et al(UCB-A) Remote.	SiemionTIIF Siemion et al(UCB-A) Guest instrumentation (non-facility); Bringing custom instrumentation (7kg) + mounting plates (2kg) to match multiple sets of threaded holes (P, K, J) on the Nickel's mounting triangle, to allow for flexibility of installation. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-01-29	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. IGNORE: Eavesdrop. ADD: Remote	Levy Vogt et al(LO) Remote. Levy Kilpatrick et al(UCSC) ; N/A Remote.	SiemionTIIF Siemion et al(UCB-A) Guest instrumentation (non-facility); Bringing custom instrumentation (7kg) + mounting plates (2kg) to match multiple sets of threaded holes (P, K, J) on the Nickel's mounting triangle, to allow for flexibility of installation.
WED 2019-01-30	Cass: KAST Lau et al(UCR) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d46; polarWheel. CHANGE: Gr: gr6 300/7500, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel. IGNORE: Eavesdrop. ADD: Remote	Levy Kane et al(UCR) Remote.	SiemionTIIF Siemion et al(UCB-A) Guest instrumentation (non-facility); Bringing custom instrumentation (7kg) + mounting plates (2kg) to match multiple sets of threaded holes (P, K, J) on the Nickel's mounting triangle, to allow for flexibility of installation.
THU 2019-01-31	Cass: KAST Woo et al(FOREIGN) Gr: gr1 600/5000; Dich: d46; polarWheel. Eavesdrop. Support Astronomer	Levy Dressing et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-02-01	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SAT 2019-02-02	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-02-03	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-02-04 New Moon	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Carl Melis(UCSD) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-02-05	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Kane et al(UCR) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
WED 2019-02-06	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Holden et al(UCO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
THU 2019-02-07	Cass: KAST Williams et al(UCSC) Gr: gr2 600/7500; Dich: d55; polarWheel. Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
FRI 2019-02-08	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-02-09	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-02-10	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-02-11	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-02-12 First Quarter	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-02-13	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	
THU 2019-02-14	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-02-15	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SAT 2019-02-16	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop.	Levy Robertson et al(UCI) Remote. Support Astronomer	NIROSETI Wright et al(UCSD) NIROSETI
SUN 2019-02-17	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. Support Astronomer	Levy Holden et al(UCO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-02-18 Full Moon	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	
TUE 2019-02-19	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-02-20	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-02-21	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kane et al(UCR) Remote.	
FRI 2019-02-22	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-02-23	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: Local Support Astronomer
SUN 2019-02-24	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.
MON 2019-02-25 Last Quarter	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-02-26	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.
WED 2019-02-27	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.
THU 2019-02-28	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.
FRI 2019-03-01	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Vogt et al(LO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
SAT 2019-03-02	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. IGNORE: Eavesdrop. ADD: Change to onsite observing mode Support Astronomer	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SUN 2019-03-03	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. IGNORE: Eavesdrop. ADD: Change to onsite observing mode Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: Local Support Astronomer
MON 2019-03-04	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. IGNORE: Eavesdrop. ADD: change to onsite observing mode	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Wright et al(UCSD) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-03-05 New Moon	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. IGNORE: Eavesdrop. ADD: change to onsite observing mode	Levy Robertson et al(UCI) Remote. Support Astronomer Levy Czekala et al(UCB-A) Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-03-06	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d46; polarWheel. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-03-07	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d46; polarWheel.	Levy Kane et al(UCR) Remote.	
FRI 2019-03-08	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-03-09	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote. Support Astronomer	Levy Isaacson et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SUN 2019-03-10	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	
MON 2019-03-11	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-03-12	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d46; polarWheel.; RedX 0 RedY 0 BlueX 10 BlueY 5 Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-03-13 First Quarter	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d46; polarWheel.; RedX 0 RedY 0 BlueX 10 BlueY 5 Eavesdrop.	Levy Dressing et al(UCB-A) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
THU 2019-03-14	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
FRI 2019-03-15	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Holden et al(UCO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SAT 2019-03-16	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SUN 2019-03-17	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote. Support Astronomer	NIROSETI Wright et al(UCSD) NIROSETI
MON 2019-03-18	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
TUE 2019-03-19	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-03-20 Full Moon	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. ADD: change to on-site Support Astronomer	Levy Vogt et al(LO) Remote.	
THU 2019-03-21	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. ADD: change to on-site	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-03-22	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. ADD: change to on-site	Levy Kosiarek et al(UCSC) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SAT 2019-03-23	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Czekala et al(UCB-A) Remote. Support Astronomer	NIROSETI Wright et al(UCSD) NIROSETI
SUN 2019-03-24	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
MON 2019-03-25	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-03-26	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-03-27 Last Quarter	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer Levy Welsh et al(UCB-SSL) ; NO IODINE CELL. Levy to be used as a classic spectrometer. Flat field required at 3930Å, « with a signal to noise of > 150:1 Remote. Support Astronomer	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
THU 2019-03-28	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	
FRI 2019-03-29	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Carl Melis(UCSD) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-03-30	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Vogt et al(LO) Remote.	
SUN 2019-03-31	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
MON 2019-04-01	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
TUE 2019-04-02	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. Eavesdrop.	Levy Robertson et al(UCI) Remote. Support Astronomer	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-04-03	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d46; polarWheel. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
THU 2019-04-04 New Moon	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d46; polarWheel.	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-04-05	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
SAT 2019-04-06	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-04-07	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. Eavesdrop. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: change to local obs
MON 2019-04-08	Cass: KAST Burchett et al(UCSC) Gr: gr2 600/7500; Dich: d57, d46; polarWheel. Eavesdrop.	Levy Kane et al(UCR) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
TUE 2019-04-09	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Vogt et al(LO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
WED 2019-04-10	Cass: KAST Williams et al(UCSC) Gr: gr2 600/7500; Dich: d55; polarWheel. Eavesdrop.	Levy Robertson et al(UCI) Remote.	NIROSETI Wright et al(UCSD) NIROSETI

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-04-11 First Quarter	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
FRI 2019-04-12	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SAT 2019-04-13	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Siemion et al(UCB-A) Remote.	EYE Google Evening with the Stars et al(MTHAM) ; Google Evening With The Stars
SUN 2019-04-14	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-04-15	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	
TUE 2019-04-16	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-04-17	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer Levy Welsh et al(UCB-SSL) ; NO IODINE CELL. Levy to be used as a classic spectrometer. Flat field required at 3930Å, « with a signal to noise of > 150:1 Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-04-18 Full Moon	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
FRI 2019-04-19	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SAT 2019-04-20	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Kane et al(UCR) Remote.	NIROSETI Wright et al(UCSD) NIROSETI
SUN 2019-04-21	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Czekala et al(UCB-A) Remote. Support Astronomer	NIROSETI Wright et al(UCSD) NIROSETI
MON 2019-04-22	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-04-23	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-04-24	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
THU 2019-04-25	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-04-26 Last Quarter	Cass: KAST Cai et al(UCSC) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-04-27	Cass: KAST Cai et al(UCSC) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-04-28	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote.	
MON 2019-04-29	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr2 600/7500, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 830/8460 Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-04-30	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote. Support Astronomer	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: change to local obs
WED 2019-05-01	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-05-02	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
FRI 2019-05-03	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Alabi et al(UCSC) Filters B V R IGNORE: Remote. ADD: add X Proachaska to observer list (on-site) Support Astronomer
SAT 2019-05-04 New Moon	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Alabi et al(UCSC) Filters B V R Remote.
SUN 2019-05-05	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d46; polarWheel.; RedX 0 RedY 0 BlueX 10 BlueY 5 Eavesdrop. Support Astronomer	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-05-06	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d46; polarWheel.; RedX 0 RedY 0 BlueX 10 BlueY 5 Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-05-07	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d46; polarWheel.; RedX 0 RedY 0 BlueX 10 BlueY 5 Eavesdrop.	Levy Kane et al(UCR) Remote.	
WED 2019-05-08	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-05-09	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-05-10	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer Levy Welsh et al(UCB-SSL) ; NO IODINE CELL. Levy to be used as a classic spectrometer. Flat field required at 3930Å, « with a signal to noise of > 150:1 Remote. Support Astronomer	
SAT 2019-05-11 First Quarter	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	EYE Google Evening with the Stars et al(MTHAM) ; Google Evening With The Stars
SUN 2019-05-12	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote.	
MON 2019-05-13	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-05-14	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Robertson et al(UCI) Remote. Levy Welsh et al(UCB-SSL) ; NO IODINE CELL. Levy to be used as a classic spectrometer. Flat field required at 3930Å, « with a signal to noise of > 150:1 Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-05-15	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Dressing et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-05-16	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Holden et al(UCO) Remote.	
FRI 2019-05-17	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-05-18 Full Moon	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Kosiarek et al(UCSC) Remote.	
SUN 2019-05-19	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-05-20	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Howard et al(NOSCHOOLS) Remote.	CLOSED ALUMINIZING(UCSC)
TUE 2019-05-21	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Brandt et al(UCSB) ; None Remote.	CLOSED ALUMINIZING(UCSC)
WED 2019-05-22	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Robertson et al(UCI) Remote. Support Astronomer	CLOSED ALUMINIZING(UCSC)
THU 2019-05-23	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CLOSED ALUMINIZING(UCSC)

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-05-24	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	CLOSED ALUMINIZING(UCSC)
SAT 2019-05-25 Last Quarter	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.		CLOSED ALUMINIZING(UCSC)
SUN 2019-05-26	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: switch to local observing
MON 2019-05-27	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-05-28	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-05-29	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-05-30	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Kosiarek et al(UCSC) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-05-31	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-06-01	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Robertson et al(UCI) Remote. Support Astronomer	EYE Volunteer Orientation(MTHAM)
SUN 2019-06-02 New Moon	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Siemion et al(UCB-A) Remote.	
MON 2019-06-03	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Carl Melis(UCSD) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-06-04	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-06-05	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Robertson et al(UCI) Remote.	
THU 2019-06-06	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-06-07	Cass: KAST Williams et al(UCSC) Gr: gr2 600/7500; Dich: d55; polarWheel. Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	EYE Summer Programs(MTHAM)
SAT 2019-06-08	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	EYE Music of the Spheres(MTHAM)
SUN 2019-06-09 First Quarter	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	
MON 2019-06-10	Cass: KAST Rich et al(UCLA) Gr: gr6 300/7500, gr3 830/8460, gr1 600/5000; Dich: d55; polarWheel. ADD: Replace 600/5000 with 600/7500 grating Remote.	Levy Holden et al(UCO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-06-11	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
WED 2019-06-12	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-06-13	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	
FRI 2019-06-14	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Kane et al(UCR) Remote.	
SAT 2019-06-15	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	EYE Summer Programs(MTHAM)
SUN 2019-06-16 Full Moon	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Isaacson et al(UCB-A) Remote.	EYE Summer Programs(MTHAM)
MON 2019-06-17	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-06-18	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-06-19	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote. Support Astronomer	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-06-20	Coude: HamSpect Crabtree et al(UCD) Dewar 4 Eavesdrop. Support Astronomer	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
FRI 2019-06-21	Coude: HamSpect Crabtree et al(UCD) Dewar 4 Eavesdrop.	Levy Robertson et al(UCI) Remote.	EYE Summer Programs(MTHAM)
SAT 2019-06-22	Coude: HamSpect Crabtree et al(UCD) Dewar 4 Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	EYE Music of the Spheres(MTHAM)
SUN 2019-06-23	Coude: HamSpect Crabtree et al(UCD) Dewar 4 Eavesdrop. Support Astronomer	CLOSED CLOSED(LO)	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-06-24 Last Quarter	Coude: HamSpect Crabtree et al(UCD) Dewar 4 Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-06-25	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Runco et al(UCLA) Filters B broadband V broadband R broadband 6563/100 H± narrowband filter; N/A Remote.
WED 2019-06-26	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. IGNORE: Remote. ADD: Change to on-site observing	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-06-27	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-06-28	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SAT 2019-06-29	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote.	Levy Holden et al(UCO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SUN 2019-06-30	Cass: KAST Gregg et al(UCD) Gr: gr6 300/7500, gr4 1200/5000, gr2 600/7500; Dich: d55; polarWheel. Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
MON 2019-07-01 New Moon	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-07-02	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm IGNORE: Remote. ADD: Change to local mode	Levy Siemion et al(UCB-A) Remote.	
WED 2019-07-03	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Holden et al(UCO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
THU 2019-07-04	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-07-05	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote. Support Astronomer	
SAT 2019-07-06	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-07-07	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Czekala et al(UCB-A) Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: change to local mode
MON 2019-07-08 First Quarter	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
TUE 2019-07-09	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Runco et al(UCLA) Filters B broadband V broadband R broadband 6563/100 H $\pm$ narrowband filter; N/A Remote.
WED 2019-07-10	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
THU 2019-07-11	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-07-12	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Siemion et al(UCB-A) Remote.	EYE Summer Programs(MTHAM)

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SAT 2019-07-13	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Kane et al(UCR) Remote.	EYE Music of the Spheres(MTHAM)
SUN 2019-07-14	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Robertson et al(UCI) Remote.	CCD-C2 Carl Melis(UCSD) Filters B V R I Remote.
MON 2019-07-15	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-07-16 Full Moon	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Carl Melis(UCSD) Filters B V R I Remote.
WED 2019-07-17	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Dressing et al(UCB-A) Remote.	CCD-C2 Gates et al(MTHAM) Filters B V R I
THU 2019-07-18	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-07-19	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop. Support Astronomer	Levy Holden et al(UCO) Remote.	
SAT 2019-07-20	Cass: ShARCS_LGS Dressing et al(UCB-A) Filters: CH <sub>4</sub> 1.2 &#956;m, H continuum, K continuum IGNORE: ADD: change to on-site Eavesdrop.	Levy Holden et al(UCO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-07-21	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Kane et al(UCR) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-07-22	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Siemion et al(UCB-A) Remote.	
TUE 2019-07-23	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-07-24 Last Quarter	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
THU 2019-07-25	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-07-26	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote.	EYE Summer Programs(MTHAM)
SAT 2019-07-27	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	EYE Music of the Spheres(MTHAM)
SUN 2019-07-28	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
MON 2019-07-29	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-07-30	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
WED 2019-07-31 New Moon	Cass: KAST Abrahams et al(UCB-A) Gr: gr4 1200/5000, gr5 300/4320, gr1 600/5000, gMirror; Dich: mirror, d57, d46; polarWheel.; BlueX 7.6mm CHANGE: Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; BlueX 7.6mm Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
THU 2019-08-01	Cass: KAST Abrahams et al(UCB-A) Gr: gr4 1200/5000, gr5 300/4320, gr1 600/5000, gMirror; Dich: mirror, d57, d46; polarWheel.; BlueX 7.6mm CHANGE: Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; BlueX 7.6mm Eavesdrop. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-08-02	Cass: KAST Rich et al(UCLA) Gr: gr2 600/7500, gr3 830/8460; Dich: d55; User filter wheel. ADD: dmirror Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	
SAT 2019-08-03	Cass: KAST Rich et al(UCLA) Gr: gr2 600/7500, gr3 830/8460; Dich: d55; User filter wheel. ADD: dmirror Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-08-04	Cass: KAST Rich et al(UCLA) Gr: gr2 600/7500, gr3 830/8460; Dich: d55; User filter wheel. ADD: dmirror Remote. Support Astronomer	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
MON 2019-08-05	Cass: KAST Rich et al(UCLA) Gr: gr2 600/7500, gr3 830/8460; Dich: d55; User filter wheel. ADD: dmirror Remote.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	
TUE 2019-08-06 First Quarter	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-08-07	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop. Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer	Levy Isaacson et al(UCB-A) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
THU 2019-08-08	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
FRI 2019-08-09	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	EYE Summer Programs(MTHAM)
SAT 2019-08-10	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Howard et al(NOSCHOOLS) Remote.	EYE Music of the Spheres(MTHAM)



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-08-11	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Siemion et al(UCB-A) Remote.	
MON 2019-08-12	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: change to local observing mode
TUE 2019-08-13	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-08-14 Full Moon	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Isaacson et al(UCB-A) Remote.	CCD-C2 Foley et al(UCSC) Filters B V r' i' Remote.
THU 2019-08-15	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Kane et al(UCR) Remote.	CCD-C2 Foley et al(UCSC) Filters B V r' i' Remote.
FRI 2019-08-16	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer Cass: ShARCS_NGS Molter et al(UCB-A) Filters: Permanent filter set only.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Foley et al(UCSC) Filters B V r' i' Remote.
SAT 2019-08-17	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SUN 2019-08-18	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Carl Melis(UCSD) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-08-19	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Dalba et al(UCR) Remote. Support Astronomer	
TUE 2019-08-20	Cass: ShARCS_LGS Theissen et al(UCSD) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote.	
WED 2019-08-21	Cass: ShARCS_LGS Zink et al(UCLA) Filters: Permanent filter set only. Eavesdrop. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
THU 2019-08-22 Last Quarter	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Vogt et al(LO) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
FRI 2019-08-23	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	EYE Summer Programs(MTHAM)
SAT 2019-08-24	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	EYE Music of the Spheres(MTHAM)
SUN 2019-08-25	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-08-26	Cass: KAST Rubin et al(LO) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel.; BlueX 10 BlueY 5 Eavesdrop.	Levy Kane et al(UCR) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-08-27	Cass: KAST Rubin et al(LO) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel.; BlueX 10 BlueY 5 Eavesdrop.	Levy Kane et al(UCR) Remote.	
WED 2019-08-28	Cass: KAST Nugent et al(UCB-LBL) Gr: gr6 300/7500, gr1 600/5000; Dich: d55; polarWheel.; We propose to use the KAST spectrograph to obtain these measurements. We request the d55 dichroic, the 600/5000 grism on the blue arm and the 300/7500 grating and the mirror on the red arm. We will take dome flats after each target in order to remove fringing in the red spectra in the face of instrument flexure. Assuming nights that are 8 hours long, we calculate an average of 60 minutes per target, including acquisition, dithering, and calibration overheads. To date we have achieved 8-10 spectra per full clear night. ADD: Install the d57 instead of the d55 Eavesdrop. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-08-29 New Moon	Cass: KAST Williams et al(UCSC) Gr: gr2 600/7500; Dich: d55; polarWheel. Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
FRI 2019-08-30	Cass: KAST Chisholm et al(UCSC) Dich: d55; polarWheel. IGNORE: ADD: Gr: 600/4310; 600/7500 ADD: gr2: 600/7500 ADD: gr2: 600/7500, gr4: 1200/7500; dich: d46, d55 ADD: ADD: gr2: 600/7500, gr4:1200/7500; dich: d46,d57; Blue X = 7.3 mm Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote.
SAT 2019-08-31	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kane et al(UCR) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-09-01	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop. Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-09-02	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
TUE 2019-09-03	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	
WED 2019-09-04	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-09-05 First Quarter	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Malkan et al(UCLA) Filters B V Remote. CHANGE: Change from Remote to Local
FRI 2019-09-06	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-09-07	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Kane et al(UCR) Remote.	EYE Volunteer Appreciation(MTHAM)

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-09-08	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-09-09	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	
TUE 2019-09-10	Cass: KAST Gates et al(MTHAM) Gr: gr2 600/7500; Dich: d57; polarWheel.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r ' i' Eavesdrop. Support Astronomer
WED 2019-09-11	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I IGNORE: Remote. ADD: change to on-site mode
THU 2019-09-12	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Vogt et al(LO) Remote.	
FRI 2019-09-13 Full Moon	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Robertson et al(UCI) Remote.	SiemionTIIF Siemion et al(UCB-A) ; Will bring and install custom instrumentation <10 kg, with mounting brackets for the Nickel. Successful installation in Jan 2019. Support Astronomer
SAT 2019-09-14	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Robertson et al(UCI) Remote.	SiemionTIIF Siemion et al(UCB-A) ; Will bring and install custom instrumentation <10 kg, with mounting brackets for the Nickel. Successful installation in Jan 2019.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-09-15	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	SiemionTHIF Siemion et al(UCB-A) ; Will bring and install custom instrumentation <10 kg, with mounting brackets for the Nickel. Successful installation in Jan 2019. Support Astronomer
MON 2019-09-16	Cass: ShARCS_LGS Zink et al(UCLA) Filters: Permanent filter set only. Eavesdrop. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	
TUE 2019-09-17	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
WED 2019-09-18	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
THU 2019-09-19	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Welsh et al(UCB-SSL) ; AFP to be used in classic spectroscopy mode....no iodine filter Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
FRI 2019-09-20	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SAT 2019-09-21 Last Quarter	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Vogt et al(LO) Remote.	EYE Google Evening with the Stars et al(MTHAM) ; Google Evening With The Stars

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-09-22	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	CCD-C2 Andrew Skemer(UCSC) Filters B V R I Support Astronomer
MON 2019-09-23	Cass: KAST Gates et al(MTHAM) Gr: gr2 600/7500; Dich: d57; polarWheel.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Andrew Skemer(UCSC) Filters B V R I
TUE 2019-09-24	Cass: KAST Gates et al(MTHAM) Gr: gr2 600/7500; Dich: d57; polarWheel.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-09-25	Cass: KAST Andrew Skemer(UCSC) ; polarWheel. Support Astronomer Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	
THU 2019-09-26	Cass: ShARCS_NGS Andrew Skemer(UCSC) Filters: Permanent filter set only. Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	
FRI 2019-09-27 New Moon	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SAT 2019-09-28	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Robertson et al(UCI) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SUN 2019-09-29	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Holden et al(UCO) Remote.	
MON 2019-09-30	Cass: KAST Croft et al(UCB-A) Gr: gr2 600/7500, gMirror; Dich: mirror, d55; polarWheel.; For the blue channel, we request an adjustment of the X-stage to reach a central wavelength of 4445 Angstrom (or as close as possible without degraded resolution or vignetting). For the red channel, we are targeting a central wavelength of 6235 Angstrom (or a tilt of 9217).	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
TUE 2019-10-01	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
WED 2019-10-02	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
THU 2019-10-03	Cass: KAST Rubin et al(LO) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel.; BlueX 10 BlueY 5 Eavesdrop.	Levy Robertson et al(UCI) Remote.	



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-10-04 First Quarter	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
SAT 2019-10-05	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop. Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	EYE Gates et al(MTHAM) Eyepiece
SUN 2019-10-06	Cass: KAST Nugent et al(UCB-LBL) Gr: gr6 300/7500, gr1 600/5000; Dich: d55; polarWheel.; We propose to use the KAST spectrograph to obtain these measurements. We request the d55 dichroic, the 600/5000 grism on the blue arm and the 300/7500 grating and the mirror on the red arm. We will take dome flats after each target in order to remove fringing in the red spectra in the face of instrument flexure. Assuming nights that are 8 hours long, we calculate an average of 60 minutes per target, including acquisition, dithering, and calibration overheads. To date we have achieved 8-10 spectra per full clear night. ADD: Install the d57 instead of the d55 Eavesdrop. Support Astronomer	Levy Brandt et al(UCSB) None Remote. Support Astronomer	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-10-07	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-10-08	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote. Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	
WED 2019-10-09	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Robertson et al(UCI) Remote.	
THU 2019-10-10	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
FRI 2019-10-11	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Vogt et al(LO) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-10-12	Cass: KAST Gates et al(MTHAM) Gr: gr6 300/7500, gr2 600/7500, gMirror; Dich: mirror, d57; polarWheel.	Levy Robertson et al(UCI) Remote.	CCD-C2 Gates et al(MTHAM) Filters B V R I
SUN 2019-10-13 Full Moon	Cass: KAST Gates et al(MTHAM) Gr: gr6 300/7500, gr2 600/7500, gMirror; Dich: mirror, d57; polarWheel.	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Gates et al(MTHAM) Filters B V R I
MON 2019-10-14	Cass: ShARCS_NGS Gonzales et al(UCSC) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-10-15	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Robertson et al(UCI) Remote.	
WED 2019-10-16	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
THU 2019-10-17	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Robertson et al(UCI) Remote.	
FRI 2019-10-18	Cass: ShARCS_LGS Zink et al(UCLA) Filters: Permanent filter set only. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
SAT 2019-10-19	Cass: ShARCS_LGS Theissen et al(UCSD) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	EYE Google Evening with the Stars et al(MTHAM) ; Google Evening With The Stars
SUN 2019-10-20 Last Quarter	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop. Support Astronomer
MON 2019-10-21	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Vogt et al(LO) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-10-22	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
WED 2019-10-23	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
THU 2019-10-24	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Kosiarek et al(UCSC) Remote.	
FRI 2019-10-25	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Kane et al(UCR) Remote.	
SAT 2019-10-26	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Robertson et al(UCI) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.
SUN 2019-10-27 New Moon	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	CCD-C2 Brink et al(UCB-A) Filters B V R I Remote.
MON 2019-10-28	: POLISH Graham et al(UCB-A) ; Will need Gemini triangle with hexagonal plate and lamp removed. Please do not use pellicle in Cass mirror position 3.	Levy Brandt et al(UCSB) ; None Remote.	
TUE 2019-10-29	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote.	
WED 2019-10-30	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Siemion et al(UCB-A) Remote.	CCD-C2 Kilpatrick et al(UCSC) Filters B V r' i' Eavesdrop.

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
THU 2019-10-31	<p>Cass: KAST Nugent et al(UCB-LBL)            Gr: gr6 300/7500, gr1 600/5000; Dich: d55; polarWheel.; We            propose to use the KAST spectrograph to obtain these            measurements. We request the d55 dichroic, the 600/5000            grism on            the blue arm and the 300/7500 grating and the mirror on the red            arm. We will take dome flats after each target in order to remove            fringing in the red spectra in the face of instrument flexure.            Assuming nights that are 8 hours long, we calculate an            average of            60 minutes per target, including acquisition, dithering, and            calibration overheads. To date we have achieved 8-10 spectra per            full clear night.            ADD: Install the d57 instead of the d55            Eavesdrop.            Support Astronomer</p>	<p>Levy Vogt et al(LO)            Remote.</p>	<p>CCD-C2 Brink et al(UCB-A)            Filters B V R I            Remote.</p>
FRI 2019-11-01	<p>Cass: KAST Williams et al(UCSC)            Gr: gr2 600/7500; Dich: d55; polarWheel.            Eavesdrop.</p>	<p>Levy Howard et al(NOSCHOOLS)            Remote.</p>	
SAT 2019-11-02	<p>Cass: KAST Treu et al(UCLA)            Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46;            polarWheel.            ADD: BlueX = 12.3 mm            Remote.</p>	<p>Levy Robertson et al(UCI)            Remote.</p>	
SUN 2019-11-03 First Quarter	<p>Cass: KAST GuhaThakurta et al(LO)            Gr: gr4 1200/5000; Dich: d55; polarWheel.            Eavesdrop.            Support Astronomer            Cass: KAST Melis et al(UCSD)            Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror,            d57; polarWheel.; BlueX 11.0mm            Eavesdrop.</p>	<p>Levy Brandt et al(UCSB)            ; None            Remote.            Support Astronomer</p>	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-11-04	Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	
TUE 2019-11-05	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	
WED 2019-11-06	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Kane et al(UCR) Remote.	
THU 2019-11-07	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	
FRI 2019-11-08	Cass: ShARCS_LGS Zink et al(UCLA) Filters: Permanent filter set only. Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	
SAT 2019-11-09	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Siemion et al(UCB-A) Remote.	
SUN 2019-11-10	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Czekala et al(UCB-A) Remote. Support Astronomer Levy Dalba et al(UCR) Remote. Support Astronomer	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-11-11 Full Moon	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH <sub>4</sub> 1.2 & #956;m, H <sub>2</sub> 2.122 & #956;m, CH <sub>4</sub> 2.4 & #956;m Eavesdrop.	Levy Vogt et al(LO) Remote.	
TUE 2019-11-12	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Robertson et al(UCI) Remote.	
WED 2019-11-13	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Brandt et al(UCSB) ; None Remote.	
THU 2019-11-14	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
FRI 2019-11-15	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	
SAT 2019-11-16	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	
SUN 2019-11-17	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Kosiarek et al(UCSC) Remote.	
MON 2019-11-18	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
TUE 2019-11-19 Last Quarter	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	
WED 2019-11-20	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
THU 2019-11-21	Cass: KAST Rubin et al(LO) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel.; BlueX 10 BlueY 5 Eavesdrop.	Levy Vogt et al(LO) Remote.	
FRI 2019-11-22	Cass: KAST Nugent et al(UCB-LBL) Gr: gr6 300/7500, gr1 600/5000; Dich: d55; polarWheel.; We propose to use the KAST spectrograph to obtain these measurements. We request the d55 dichroic, the 600/5000 grism on the blue arm and the 300/7500 grating and the mirror on the red arm. We will take dome flats after each target in order to remove fringing in the red spectra in the face of instrument flexure. Assuming nights that are 8 hours long, we calculate an average of 60 minutes per target, including acquisition, dithering, and calibration overheads. To date we have achieved 8-10 spectra per full clear night. ADD: Install the d57 instead of the d55 Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	
SAT 2019-11-23	Cass: KAST Stelter et al(UCSC) Gr: gr2 600/7500, gr3 830/8460, gr1 600/5000; Dich: d46, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Kosiarek et al(UCSC) Remote.	CCD-C2 Kosiarek et al(UCSC) Filters V R I Z Remote.



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-11-24	Cass: KAST Stelter et al(UCSC) Gr: gr2 600/7500, gr3 830/8460, gr1 600/5000; Dich: d46, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	CCD-C2 Kosiarek et al(UCSC) Filters V R I Z Remote.
MON 2019-11-25 New Moon	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Brandt et al(UCSB) ; None Remote.	CCD-C2 Kosiarek et al(UCSC) Filters V R I Z Remote.
TUE 2019-11-26	Cass: KAST GuhaThakurta et al(LO) Gr: gr4 1200/5000; Dich: d55; polarWheel. Eavesdrop. Support Astronomer Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Robertson et al(UCI) Remote.	
WED 2019-11-27	Cass: KAST Abrahams et al(UCB-A) Gr: gr4 1200/5000, gr5 300/4320, gr1 600/5000, gMirror; Dich: mirror, d57, d46; polarWheel.; BlueX 7.6mm CHANGE: Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; BlueX 7.6mm Eavesdrop. Support Astronomer	Levy Howard et al(NOSCHOOLS) Remote.	
THU 2019-11-28	None: CLOSED HOLIDAY(LO) Remote.	Levy Robertson et al(UCI) Remote.	
FRI 2019-11-29	None: CLOSED HOLIDAY(LO) Remote.	Levy Siemion et al(UCB-A) Remote.	
SAT 2019-11-30	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SUN 2019-12-01	Cass: KAST Kupfer et al(UCSB) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel. Eavesdrop. Support Astronomer	Levy Vogt et al(LO) Remote.	
MON 2019-12-02	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Robertson et al(UCI) Remote.	
TUE 2019-12-03 First Quarter	Cass: KAST Williams et al(UCSC) Gr: gr2 600/7500; Dich: d55; polarWheel. Eavesdrop.	Levy Robertson et al(UCI) Remote.	
WED 2019-12-04	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
THU 2019-12-05	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer	
FRI 2019-12-06	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	
SAT 2019-12-07	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Kane et al(UCR) Remote.	
SUN 2019-12-08	Cass: KAST Burgasser et al(UCSD) Gr: gr2 600/7500; Dich: d57; polarWheel. ADD: Blue X: 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
MON 2019-12-09	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Siemion et al(UCB-A) Remote.	
TUE 2019-12-10	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Howard et al(NOSCHOOLS) Remote.	
WED 2019-12-11 Full Moon	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Vogt et al(LO) Remote.	
THU 2019-12-12	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Robertson et al(UCI) Remote.	
FRI 2019-12-13	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Robertson et al(UCI) Remote.	
SAT 2019-12-14	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Robertson et al(UCI) Remote.	
SUN 2019-12-15	: AeroSpOpIR Puetter et al(UCSD) ; Telescope baffles in	Levy Czekala et al(UCB-A) Remote. Support Astronomer	
MON 2019-12-16	None: CLOSED CLOSED(LO) Remote.	Levy Brandt et al(UCSB) ; None Remote.	
TUE 2019-12-17	None: CLOSED CLOSED(LO) Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
WED 2019-12-18 Last Quarter	None: CLOSED CLOSED(LO) Remote.	Levy Robertson et al(UCI) Remote.	
THU 2019-12-19	Cass: KAST Melis et al(UCSD) Gr: gr4 1200/5000, gr3 830/8460, gMirror; Dich: mirror, d57; polarWheel.; BlueX 11.0mm Eavesdrop.	Levy Siemion et al(UCB-A) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2019-12-20	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	
SAT 2019-12-21	Cass: KAST Zheng et al(UCB-A) Gr: gr6 300/7500, gMirror; Dich: d57, d55; polarWheel.; BlueX 7.6mm Remote.	Levy Vogt et al(LO) Remote.	
SUN 2019-12-22	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote.	
MON 2019-12-23	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
TUE 2019-12-24	None: CLOSED HOLIDAY(LO) Remote.	CLOSED HOLIDAY(LO)	
WED 2019-12-25 New Moon	None: CLOSED HOLIDAY(LO) Remote.	CLOSED HOLIDAY(LO)	
THU 2019-12-26	Cass: KAST Cai et al(UCSC) Gr: gr2 600/7500, gr1 600/5000; Dich: d46, d55; polarWheel. Remote. Support Astronomer	Levy Robertson et al(UCI) Remote.	
FRI 2019-12-27	Cass: KAST Cai et al(UCSC) Gr: gr2 600/7500, gr1 600/5000; Dich: d46, d55; polarWheel. Remote.	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SAT 2019-12-28	Cass: KAST Cai et al(UCSC) Gr: gr2 600/7500, gr1 600/5000; Dich: d46, d55; polarWheel. Remote.	Levy Robertson et al(UCI) Remote.	
SUN 2019-12-29	Cass: KAST Nugent et al(UCB-LBL) Gr: gr6 300/7500, gr1 600/5000; Dich: d55; polarWheel.; We propose to use the KAST spectrograph to obtain these measurements. We request the d55 dichroic, the 600/5000 grism on the blue arm and the 300/7500 grating and the mirror on the red arm. We will take dome flats after each target in order to remove fringing in the red spectra in the face of instrument flexure. Assuming nights that are 8 hours long, we calculate an average of 60 minutes per target, including acquisition, dithering, and calibration overheads. To date we have achieved 8-10 spectra per full clear night. ADD: Install the d57 instead of the d55 Eavesdrop. Support Astronomer	Levy Siemion et al(UCB-A) Remote.	
MON 2019-12-30	Cass: KAST Rubin et al(LO) Gr: gr6 300/7500, gr2 600/7500, gr3 830/8460; Dich: d57, d55; polarWheel.; BlueX 10 BlueY 5 Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	
TUE 2019-12-31	None: CLOSED HOLIDAY(LO) Remote.	CLOSED HOLIDAY(LO)	
WED 2020-01-01	None: CLOSED HOLIDAY(LO) Remote.	CLOSED HOLIDAY(LO)	
THU 2020-01-02 First Quarter	Cass: KAST Abrahams et al(UCB-A) Gr: gr4 1200/5000, gr5 300/4320, gr1 600/5000, gMirror; Dich: mirror, d57, d46; polarWheel.; BlueX 7.6mm CHANGE: Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; BlueX 7.6mm Eavesdrop. Support Astronomer	Levy Vogt et al(LO) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2020-01-03	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Robertson et al(UCI) Remote.	
SAT 2020-01-04	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	
SUN 2020-01-05	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	
MON 2020-01-06	Cass: ShARCS_LGS Rich et al(UCLA) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Robertson et al(UCI) Remote.	
TUE 2020-01-07	Cass: ShARCS_LGS Theissen et al(UCSD) Filters: Permanent filter set only. Remote. Support Astronomer	Levy Czekala et al(UCB-A) Remote. Support Astronomer	
WED 2020-01-08	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	
THU 2020-01-09 Full Moon	Cass: ShARCS_LGS Robertson et al(UCI) Filters: Permanent filter set only. Remote.	Levy Siemion et al(UCB-A) Remote.	
FRI 2020-01-10	Cass: ShARCS_LGS Mark Ammons(LLNL) Filters: Permanent filter set only. Remote.	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SAT 2020-01-11	Cass: ShARCS_LGS Zink et al(UCLA) Filters: Permanent filter set only. Eavesdrop. Support Astronomer	Levy Brandt et al(UCSB) ; None Remote. Support Astronomer Levy Holden et al(UCO) Remote.	
SUN 2020-01-12	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH<sub>4</sub> 1.2 &#956;m, H<sub>2</sub> 2.122 &#956;m, CH<sub>4</sub> 2.4 &#956;m Eavesdrop.	Levy Howard et al(NOSCHOOLS) Remote.	
MON 2020-01-13	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH<sub>4</sub> 1.2 &#956;m, H<sub>2</sub> 2.122 &#956;m, CH<sub>4</sub> 2.4 &#956;m Eavesdrop.	Levy Robertson et al(UCI) Remote.	
TUE 2020-01-14	Cass: ShARCS_LGS Dressing et al(UCB-A) 6 nights in LGS mode & 10 nights in NGS mode Filters: CH<sub>4</sub> 1.2 &#956;m, H<sub>2</sub> 2.122 &#956;m, CH<sub>4</sub> 2.4 &#956;m Eavesdrop.	Levy Vogt et al(LO) Remote.	
WED 2020-01-15	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Brandt et al(UCSB) ; None Remote.	
THU 2020-01-16 Last Quarter	Cass: KAST Foley et al(UCSC) Gr: gr6 300/7500, gr4 1200/5000, gr1 600/5000; Dich: d57; polarWheel.; BlueX 15.65 Eavesdrop.	Levy Robertson et al(UCI) Remote.	
FRI 2020-01-17	Cass: KAST Filippenko et al(UCB-A) Gr: gr6 300/7500, gr1 600/5000, gMirror; Dich: mirror, d57; polarWheel.; BlueX 7.6 mm Remote.	Levy Robertson et al(UCI) Remote.	

DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
SAT 2020-01-18	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Remote.	Levy Kane et al(UCR) Remote.	
SUN 2020-01-19	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Remote.	Levy Robertson et al(UCI) Remote.	
MON 2020-01-20	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Remote.	Levy Siemion et al(UCB-A) Remote.	
TUE 2020-01-21	Cass: KAST Prochaska et al(LO) Gr: gr2 600/7500, gr1 600/5000; Dich: d57, d55; polarWheel. Remote.	Levy Dalba et al(UCR) Remote. Support Astronomer	
WED 2020-01-22	Cass: KAST Chisholm et al(UCSC) Dich: d55; polarWheel. IGNORE: ADD: Gr: 600/4310; 600/7500 ADD: gr2: 600/7500 ADD: gr2: 600/7500, gr4: 1200/7500; dich: d46, d55 ADD: ADD: gr2: 600/7500, gr4:1200/7500; dich: d46,d57; Blue X = 7.3 mm Eavesdrop. Support Astronomer	Levy Robertson et al(UCI) Remote.	
THU 2020-01-23	Cass: KAST Chisholm et al(UCSC) Dich: d55; polarWheel. IGNORE: ADD: Gr: 600/4310; 600/7500 ADD: gr2: 600/7500 ADD: gr2: 600/7500, gr4: 1200/7500; dich: d46, d55 ADD: ADD: gr2: 600/7500, gr4:1200/7500; dich: d46,d57; Blue X = 7.3 mm Eavesdrop.	Levy Vogt et al(LO) Remote.	



DATE	SHANE TELESCOPE SCHEDULE	APF SCHEDULE	NICKEL 1 M REFLECTOR SCHEDULE
FRI 2020-01-24 New Moon	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d57, d46; User filter wheel. Remote.	Levy Robertson et al(UCI) Remote.	
SAT 2020-01-25	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d57, d46; User filter wheel. Remote.	Levy Howard et al(NOSCHOOLS) Remote.	
SUN 2020-01-26	Cass: KAST Lau et al(UCR) Gr: gr4 1200/5000, gr3 830/8460; Dich: d57, d46; polarWheel. Remote.	Levy Kane et al(UCR) Remote.	
MON 2020-01-27	Cass: KAST Lau et al(UCR) Gr: gr4 1200/5000, gr3 830/8460; Dich: d57, d46; polarWheel. Remote.	Levy Robertson et al(UCI) Remote.	
TUE 2020-01-28	Cass: KAST Lau et al(UCR) Gr: gr4 1200/5000, gr3 830/8460; Dich: d57, d46; polarWheel. Remote.	Levy Brandt et al(UCSB) ; None Remote.	
WED 2020-01-29	Cass: KAST Lau et al(UCR) Gr: gr4 1200/5000, gr3 830/8460; Dich: d57, d46; polarWheel. Remote.	Levy Robertson et al(UCI) Remote.	
THU 2020-01-30	Cass: KAST Marijana Smailagic(UCSC) Gr: gr2 600/7500; Dich: d57, d46; User filter wheel. Remote.	Levy Czekala et al(UCB-A) Remote. Support Astronomer	
FRI 2020-01-31	Cass: KAST Treu et al(UCLA) Gr: gr2 600/7500, gr1 600/5000, gMirror; Dich: d46; polarWheel. ADD: BlueX = 12.3 mm Remote.	Levy Robertson et al(UCI) Remote.	