

Curriculum Vitae

Aaron J. Romanowsky

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Personal data:

Born 1972, California, U.S.A.

U.S.A. citizenship

Contact information:

UCO/Lick Observatory

University of California

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Degrees earned:

Nov. 1999, Ph.D. Astronomy, Harvard University

(thesis supervisor: Chris Kochanek ; thesis title: “The Structure and Dynamics of Galaxies”)

June 1996, M.A. Astronomy, Harvard University

June 1994, B.S. Physics with High Honors, College of Creative Studies, University of California,
Santa Barbara

Positions held:

July 2007 – present: Associate Specialist, UCO/Lick Observatory, University of California,
Santa Cruz

Oct. 2004 – June 2007: Researcher in Astronomy, Department of Physics, University of
Concepción

May 2005: Visiting Adjunct Professor, Faculty of Astronomical and Geophysical Sciences,
National University of La Plata

June 2002 – Oct. 2004: Postdoctoral Research Fellow, School of Physics and Astronomy,
University of Nottingham

Oct. 1999 – May 2002: Postdoctoral Fellow, Kapteyn Astronomical Institute, *Rijksuniversiteit*
Groningen

June 1994 – Oct. 1999 : Research Fellow, Harvard-Smithsonian Center for Astrophysics

Jan. – June 1998 : Teaching Fellow, Core Program, Harvard College (“Origins and Aliens”,
Owen Gingerich & Dave Latham)

Jan. – June 1996 : Teaching Fellow, Core Program, Harvard College (“Matter in the Universe”,
Bob Kirshner)

Sep. 1995 – Jan. 1996 : Teaching Fellow, Astronomy Dept., Harvard University (“Radiative
Processes in Astrophysics”, George Rybicki)

Jan. – June 1995 : Teaching Fellow, Core Program, Harvard College (“Matter in the Universe”,
Bob Kirshner)

June – Aug. 1993 : National Undergraduate Research Fellow in Plasma Physics and Fusion Engineering, University of California, Los Angeles (Ultrashort Pulse Reflectometer for Tokamak Diagnostics)

June – Aug. 1992 : Summer Undergraduate Research Fellow, University of California, Santa Barbara (Remote Access Astronomy Project; South Pole Cosmology Experiment)

Awards received:

Harvard University Certificate of Distinction in Teaching, 1996

University of California Regents Scholarship, 1990–1994

National Merit Scholarship, 1990–1991

Research grants awarded:

National Science Foundation, Astronomy & Astrophysics Grant 0909237, “*Probing the Fundamental Halo Properties of Early-type Galaxies Using a New Technique for Wide-field Stellar Kinematics*”, 2009–2013, \$354,987 (**PI: A. Romanowsky**)

FONDECYT Regular Project 1070687, National Commission of Scientific and Technological Research (CONICYT, Chile), “*Dark Matter and Dynamics in Elliptical Galaxy Halos: Critical Calibrations with Combined Constraints*”, 2007–2011, CLP \$ 61.332.000 (USD \$ 114,000 – declined) (**PI: A. Romanowsky**)

Other professional activities:

Science case collaborator, The Synoptic All-Sky Infrared Survey, 2011–

Academic outreach partner, Science Buddies student science project online resource center, 2009–

Co-supervisor (unofficial), Jacob Arnold, Ph.D. project, Halo kinematics of lenticular galaxies, University of California, Santa Cruz, 2007–

Co-supervisor (unofficial), Navtej Singh, Ph.D. project, Sizes of globular clusters and ultra-compact dwarfs using *Hubble Space Telescope* imaging, University of California, Santa Cruz / National University of Ireland, Galway, 2011

Panel Review, National Science Foundation, 2010

Judge and co-organizer, Science Buddies - Lick Observatory Astronomy Contest for grade-school students, 2010–2011

Co-supervisor (unofficial), Jody Hannibal, National Science Foundation Research Experiences for Undergraduates project, Intergalactic globular clusters, University of California, Santa Cruz, 2009–2010

Organizer, Journal Club, Lick/UCSC, 2010–

Referee, *The Astrophysical Journal Letters*, 2010

Member, Colloquium Committee, Lick/UCSC, 2008

Co-supervisor (unofficial), Ricardo Salinas Venegas, Ph.D. thesis, “Dark matter in central and isolated elliptical galaxies”, Universidad de Concepción, 2006–2007

Referee, *The Astrophysical Journal*, 2007

Referee, Canadian Time Allocation Committee Gemini Telescope, 2007

Referee, *Science*, 2006

Member, Chilean Telescope Allocation Committee, 2006

Supervisor, Raúl Monsalve Jara, civil electronic engineering thesis project, “Reducción de datos de imágenes astronómicas con software IRAF”, Universidad de Concepción, 2006

Member, Local Organizing Committee, “Globular Clusters – Guides to Galaxies” conference, 2005–2006
Member, Astronomy Curriculum Design Committee, Universidad de Concepción, 2005–2006
Organizer, Internal seminar series, Astronomy group, Universidad de Concepción, 2005–2006
Member, Sociedad Chilena de Astronomía, 2004–2007
Member, FONDAPE Centro de Astrofísica, 2004–2007
Referee, Astronomy & Astrophysics Letters, 2005
Referee, Nature, 2005
Referee, four papers, Monthly Notices of the Royal Astronomical Society, 2004–2009
Supervisor, Philip Vint & Jonathan Walmsley, Master of Science final year project, “Dark matter in dwarf galaxies”, University of Nottingham, 2004
Organiser, Lunchtime Astronomy Talks, Univ Nottingham, 2003–2004
Referee, PATT/William Herschel Telescope, 2004B
Referee, PATT/Gemini Observatory, 2004A
Supervisor, observing training at William Herschel Telescope, Ph.D. student Helen Merrett, 2003
Tutor, first year Physics and Astronomy, University of Nottingham, 2002–2003
Project consultant, Ph.D. student Joris Gerssen, “Dark halos in S0 galaxies: NGC 5866”, 2000
Consultant, astronomy & relativity, MadSci Network (madsci.wustle.edu), 1997–1998
Non-resident tutor, Eliot House, Harvard University, 1995–1997
Full Member, American Astronomical Society

Refereed publications: (43 papers, 1031 citations, Hirsch index $h = 20$, slope $m = 1.4$)
14 high impact papers (≥ 10 citations per year) marked with ‘*’

Spitler, L.R., **Romanowsky, A.J.**, Diemand, J., Strader, J., Forbes, D.A., Moore, B., & Brodie, J.P. 2011, Mon. Not. R. Astron. Soc., submitted, “Evidence for inhomogeneous reionization in the local Universe from metal-poor globular cluster systems”

Romanowsky, A.J., Strader, J., Brodie, J.P., Mihos, J.C., Spitler, L.R., Forbes, D.A., Foster, C., & Arnold, J.A. 2011, Astrophys. J., submitted, “The ongoing assembly of a central cluster galaxy: phase-space substructures in the halo of M87”

Napolitano, N.R., Capozziello, S., **Romanowsky, A.J.**, Capaccioli, M., & Tortora, C. 2011, Astrophys. J., submitted, “Testing Yukawa-like potentials from $f(R)$ -gravity in elliptical galaxies”

Salinas, R., Richtler, T., Bassino, L.P., **Romanowsky, A.J.**, & Schuberth, Y., 2011, Astron. Astrophys., in press, arXiv:1111.1581, “Kinematic properties of the field elliptical NGC 7507”

Strader, J., **Romanowsky, A.J.**, Brodie, J.P., Spitler, L.R., Beasley, M.A., Arnold, J.A., Tamura, N., Sharples, R.M., & Arimoto, N., 2011, Astrophys. J. Suppl. S., in press, arXiv:1110.2778, “Wide-field precision kinematics of the M87 globular cluster system” :
1 citation

Brodie, J.P., **Romanowsky, A.J.**, Strader, J., & Forbes, D.A. 2011, Astron. J., in press, arXiv:1109.5696, “The relationships among compact stellar systems: a fresh view of ultra compact dwarfs” : **1 citation**

Tortora, C., Napolitano, N.R., **Romanowsky, A.J.**, Jetzer, Ph., Cardone, V.F., & Capaccioli, M. 2011, Mon. Not. R. Astron. Soc., in press, arXiv:1107.2918, “*Stellar mass-to-light ratio gradients in galaxies: correlations with mass*”

*Trujillo-Gomez, S., Klypin, A., Primack, J., & **Romanowsky, A.J.** 2011, Astrophys. J., 742, 16 (23pp), “*Galaxies in Λ CDM with Halo Abundance Matching: luminosity-velocity relation, baryonic mass-velocity relation, velocity function, and clustering*”: **20 citations**

Foster, C., Spitler L.R., **Romanowsky, A.J.**, Forbes, D.A., Pota, V., Bekki, K., Strader, J., Proctor, R.N., Arnold, J.A., & Brodie, J.P., 2011, Mon. Not. R. Astron. Soc., 415, 3393–3416, “*Global properties of ‘ordinary’ early-type galaxies: photometry and spectroscopy of stars and globular clusters in NGC 4494*” : **4 citations**

*Levan, A.J., Tanvir N.R., Cenko S.B., Perley D.A., Wiersema K., Bloom J.S., Fruchter A.S., de Ugarte Postigo A., O’Brien P.T., Butler N., van der Horst A.J., Leloudas G., Morgan A.N., Misra K., Bower G.C., Farihi J., Tunnicliffe R.L., Modjaz M., Silverman J.M., Hjorth J., Thöne C., Cucchiara A., Castro Cerón J.M., Castro-Tirado A.J., Arnold J.A., Bremer M., Brodie J.P., Carroll T., Cooper M.C., Curran P.A., Cutri R.M., Ehle J., Forbes D., Fynbo J., Gorosabel J., Graham J., Hoffman D.I., Guziy S., Jakobsson P., Kamble A., Kerr T., Kasliwal M.M., Kouveliotou C., Kocevski D., Law N.M., Nugent P.E., Ofek E.O., Poznanski D., Quimby R.M., Rol E., **Romanowsky A.J.**, Sánchez-Ramírez R., Schulze S., Singh N., van Spaandonk L., Starling R.L.C., Strom R.G., Tello J.C., Vaduvescu O., Wheatley P.J., Wijers R.A.M.J., Winters J.M., Xu D., 2011, Science, 333, 199, “*An extremely luminous panchromatic outburst from the nucleus of a distant galaxy*” : **23 citations**

Arnold, J.A., **Romanowsky, A.J.**, Brodie, J.P., Chomiuk, L., Spitler, L.R., Strader, J., Benson, A.J., & Forbes, D.A. 2011, Astrophys. J., 736, L26 (5pp), “*The fossil record of two-phase galaxy assembly: Kinematics and metallicities in the nearest S0 galaxy*” : **6 citations**

Richtler, T., Salinas, R., Misgeld, I., Hilker, M., Hau, G. K. T., **Romanowsky, A. J.**, Schuberth, Y., & Spolaor, M. 2011, Astron. Astrophys., 531, A119 (8pp), “*The dark halo of the Hydra I galaxy cluster: core, cusp, cosmological? Dynamics of NGC 3311 and its globular cluster system*” : **4 citations**

Cortesi, A., Merrifield, M. R., Arnaboldi, M., Gerhard, O., Martinez-Valpuesta, I., Saha, K., Coccato, L., Bamford, S., Napolitano, N. R., Douglas, N. G., Kuijken, K., **Romanowsky, A. J.**, Capaccioli, M., & Freeman, K. C., 2011, Mon. Not. R. Astron. Soc, 414, 642–651, “*Unravelling the origins of S0 galaxies using maximum likelihood analysis of planetary nebulae kinematics*”

Forbes, D.A., Spitler, L.R., Strader, J., **Romanowsky, A.J.**, Brodie, J.P., & Foster, C. 2011, Mon. Not. R. Astron. Soc., 413, 2943–2949, “*Evidence for two phases of galaxy formation from radial trends in the globular cluster system of NGC 1407*” : **7 citations**

Vanderbeke, J., Baes, M., **Romanowsky, A.J.**, & Schmidtobreick, L., 2011, Mon. Not. R. Astron. Soc., 412, 2017–2025, “*Optical and near-infrared velocity dispersions of early-type galaxies*”

Salinas, R., Richtler, T., West, M.J., **Romanowsky, A.J.**, Lloyd-Davies, E., & Schuberth, Y. 2011, Astron. Astrophys., 528, A61 (9pp), “*Crazy heart: kinematics of the “star pile” in Abell 545*” : **1 citation**

- *Napolitano, N.R., **Romanowsky, A.J.**, Capaccioli, M., Douglas, N.G., Arnaboldi, M., Coccato, L., Gerhard, O., Kuijken, K., Merrifield, M.R., Bamford, S.P., Cortesi, A., Das, P., & Freeman, K.C., 2011, *Mon. Not. R. Astron. Soc.*, 411, 2035–2053, “*The PN.S Elliptical Galaxy Survey: a standard Λ CDM halo around NGC 4374?*” : **12 citations**
- Morrison, H., Caldwell, N., Schiavon, R.P., Athanassoula, E., **Romanowsky, A.J.**, & Harding, P., 2011, *Astrophys. J.*, 726, L9 (4pp), “*Star clusters in M31: Old clusters with bar kinematics*” : **1 citation**
- *Tortora, C., Napolitano, N.R., **Romanowsky, A.J.**, & Jetzer, P., 2010, *Astrophys. J.*, 721, L1–L5, “*Central dark matter trends in early-type galaxies from strong lensing, dynamics, and stellar populations*” : **12 citations**
- *Napolitano, N.R., **Romanowsky, A.J.**, Tortora, C. 2010, *Mon. Not. R. Astron. Soc.*, 405, 2351–2371, “*Central dark matter content of early-type galaxies: scaling relations and connections with star formation histories*” : **28 citations**
- *Schuberth, Y., Richtler, T., Hilker, M., Dirsch, B., Bassino, L., **Romanowsky, A.J.**, & Infante, L. 2010, *Astron. Astrophys.*, 513, A52 (30pp), “*The globular cluster system of NGC 1399. V. Dynamics of the cluster system out to 80 kpc*” : **23 citations**
- *Proctor, R.N., Forbes, D.A., **Romanowsky, A.J.**, Brodie, J.P., Strader, J., Spolaor, M., Mendel, J.T., & Spitler, L. 2009, *Mon. Not. R. Astron. Soc.*, 398, 91–108, “*Probing the 2-D kinematic structure of early-type galaxies out to 3 effective radii*” : **21 citations**
- *Tortora, C., Napolitano, N.R., **Romanowsky, A.J.**, Capaccioli, M., & Covone, G. 2009, *Mon. Not. R. Astron. Soc.*, 396, 1132–1150, “*Central mass-to-light ratios and dark matter fractions in early-type galaxies*” : **40 citations**
- ***Romanowsky, A.J.**, Strader, J., Spitler, L., Johnson, R., Brodie, J.P., Forbes, D.A., & Ponman, T. 2009, *Astron. J.*, 137, 4956–4987, “*Mapping the dark side with DEIMOS: globular clusters, X-ray gas, and dark matter in the NGC 1407 group*” : **37 citations**
- *De Lorenzi, F., Gerhard, O., Coccato, L., Arnaboldi, M., Capaccioli, M., Douglas, N.G., Freeman, K.C., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Noordermeer, E., **Romanowsky, A.J.**, & Debattista, V.P. 2009, *Mon. Not. R. Astron. Soc.*, 395, 76–96, “*Dearth of dark matter or massive dark halo? Mass-shape-anisotropy degeneracies revealed by NMAGIC dynamical models of the elliptical galaxy NGC 3379*” : **29 citations**
- *Coccato, L., Gerhard, O., Arnaboldi, M., Das, P., Douglas, N.G., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Noordermeer, E., **Romanowsky, A.J.**, Capaccioli, M., Cortesi, A., De Lorenzi, F., & Freeman, K.C. 2009, *Mon. Not. R. Astron. Soc.*, 394, 1249–1283, “*Kinematic properties of early-type galaxy haloes using planetary nebulae*” : **44 citations**
- *Napolitano, N.R., **Romanowsky, A.J.**, Coccato, L., Capaccioli, M., Douglas, N.G., Noordermeer, E., Gerhard, O., Arnaboldi, M., De Lorenzi, F., Kuijken, K., Merrifield, M.R., O’Sullivan, E., Cortesi, A., Das, P., & Freeman, K.C. 2009, *Mon. Not. R. Astron. Soc.*, 393, 329–353, “*The Planetary Nebula Spectrograph elliptical galaxy survey: the dark matter in NGC 4494*” : **39 citations**
- Noordermeer, E., Merrifield, M.R., Coccato, L., Arnaboldi, M., Capaccioli, M., Douglas, N.G., Freeman, K.C., Gerhard, O., Kuijken, K., De Lorenzi, F., Napolitano, N.R., & **Romanowsky, A.J.** 2008, *Mon. Not. R. Astron. Soc.*, 384, 943–952, “*Testing the nature of S0 galaxies using planetary nebula kinematics in NGC 1023*” : **13 citations**

- Richtler, T., Schuberth, Y., Hilker, M., Dirsch, B., Bassino, L., & **Romanowsky, A.J.** 2008, *Astron. Astrophys.*, 478, L23–L26, “*The dark matter halo of NGC 1399 - CDM or MOND?*” : **23 citations**
- Salinas, R., Richtler, T., **Romanowsky, A.J.**, West, M.J., & Schuberth, Y. 2007, *Astron. Astrophys.*, 475, 507–512, “*The star pile in Abell 545*” : **3 citations**
- *Douglas, N.G., Napolitano, N.R., **Romanowsky, A.J.**, Coccato, L., Kuijken, K., Merrifield, M.R., Arnaboldi, M., Gerhard, O., Freeman, K.C., Merrett, H.R., Noordermeer, E., & Capaccioli, M. 2007, *Astrophys. J.*, 664, 257–275, “*The P.N.S Elliptical Galaxy Survey: data reduction, planetary nebula catalog, and basic dynamics for NGC 3379*”: **49 citations**
- Gieren, W., Pietrzyński, G., Nalewajko, J., Soszyński, I., Bresolin, F., Kudritzki, R.-P., Minniti, D., & **Romanowsky, A.** 2006, *Astrophys. J.*, 647, 1056–1064, “*The Araucaria Project. An accurate distance to NGC 6822 from near-infrared photometry of Cepheid variables*” : **26 citations**
- Merrett, H.R., Merrifield, M.R., Douglas, N.G., Kuijken, K., **Romanowsky, A.J.**, Napolitano, N.R., Arnaboldi, M., Capaccioli, M., Freeman, K.C., Gerhard, O., Coccato, L., Carter, D., Evans, N.W., Wilkinson, M.I., Halliday, C., & Bridges, T.J. 2006, *Mon. Not. R. Astron. Soc.*, 369, 120–142, “*A deep kinematic survey of planetary nebulae in the Andromeda Galaxy using the Planetary Nebula Spectrograph*” : **44 citations**
- Halliday, C., Carter, D., Bridges, T.J., Jackson, Z.C., Wilkinson, M.I., Quinn, D.P., Evans, N.W., Douglas, N.G., Merrett, H.R., Merrifield, M.R., **Romanowsky, A.J.**, Kuijken, K., & Irwin, M.J. 2006, *Mon. Not. R. Astron. Soc.*, 369, 97–119, “*Planetary nebula velocities in the disk and bulge of M31*” : **7 citations**
- Bergond, G., Zepf, S.E., **Romanowsky, A.**, Sharples, R.M., & Rhode, K.L. 2006, *Astron. Astrophys.*, 448, 155–164, “*Wide-field kinematics of globular clusters in the Leo I group*” : **28 citations**
- Napolitano, N.R., Capaccioli, M., **Romanowsky, A.J.**, Douglas, N.G., Merrifield, M.R., Kuijken, K., Arnaboldi, M., Gerhard, O., & Freeman, K.C. 2005, *Mon. Not. R. Astron. Soc.*, 357, 691–706, “*Mass-to-light ratio gradients in early-type galaxy haloes*” : **57 citations**
- Merrett, H.R., Kuijken, K., Merrifield, M.R., **Romanowsky, A.J.**, Douglas, N.G., Napolitano, N.R., Arnaboldi, M., Capaccioli, M., Freeman, K.C., Gerhard, O., Evans, N.W., Wilkinson, M.I., Halliday, C., Bridges, T.J., & Carter, D. 2003, *Mon. Not. R. Astron. Soc.*, 346, L62–L66, “*Tracing the star stream through M31 using planetary nebula kinematics*” : **34 citations**
- ***Romanowsky, A.J.**, Douglas, N.G., Arnaboldi, M., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Capaccioli, M., & Freeman, K.C. 2003, *Science*, 301, 1696–1698, “*A dearth of dark matter in ordinary elliptical galaxies*” : **218 citations**
- Douglas, N.G., Arnaboldi, M., Freeman, K.C., Kuijken, K., Merrifield, M.R., **Romanowsky, A.J.**, Taylor, K., Capaccioli, M., Axelrod, T., Gilmozzi, R., Hart, J., Bloxham, G., & Jones, D. 2002, *Pub. Astron. Soc. Pac.*, 114, 1234–1251, “*The Planetary Nebula Spectrograph: the green light for galaxy kinematics*” : **36 citations**
- Romanowsky, A.J.**, & Kochanek, C.S. 2001, *Astrophys. J.*, 553, 722–732, “*Dynamics of stars and globular clusters in M87*” : **62 citations**
- Romanowsky, A.J.**, & Kochanek, C.S. 1999, *Astrophys. J.*, 516, 18–26, “*Constraints on H_0 from the central velocity dispersions of lens galaxies*” : **49 citations**

Romanowsky, A.J., & Kochanek, C.S. 1998, *Astrophys. J.*, 493, 641–649, “*Twisting of X-ray isophotes in triaxial galaxies*” : **14 citations**

Romanowsky, A.J., & Kochanek, C.S. 1997, *Mon. Not. R. Astron. Soc.*, 287, 35–50, “*Structural and dynamical uncertainties in modelling axisymmetric elliptical galaxies*” : **19 citations**

Publications in preparation: (9 papers)

Hempel, M., **Romanowsky, A.J.**, Zepf, S.E., & Kundu, A., in prep., “*UKIRT wide-field survey of globular cluster systems in Virgo*”

Hoffman, L.K., **Romanowsky, A.J.**, Cox, T.J., et al., *Astrophys. J. Lett.*, in prep., “*Kinematic twists between 1 and 3 R_e in gas-rich merger remnants*”

Kumar, B., **Romanowsky, A.J.**, Richtler, T., Schuberth, Y., Lee, M.G., Hempel, M., Geisler, D., Gómez, M., Park, H.S., Strader, J., & Brodie, J.P., *Mon. Not. R. Astron. Soc.*, in prep., “*The haloes of ordinary elliptical galaxies: kinematics of the M84 globular cluster system*”

Pota, V., Forbes, D.A., Brodie, J.P., **Romanowsky, A.J.**, Spitler, L.R., Strader, J., Foster, C., Arnold, J.A., Benson, A., & Rhode, K.L. *Mon. Not. R. Astron. Soc.*, in prep., “*A survey of globular cluster kinematics in early-type galaxies*”

Romanowsky, A.J., & Fall, S.M., *Astrophys. J.*, in prep., “*Angular momentum and galaxy formation revisited*”

Romanowsky, A.J., Krumholz, M., Dekel, A., Ceverino, D., Spitler, L.R., Strader, J., & Brodie, J.P., in prep., “*Wild disks as globular cluster factories*”

Romanowsky, A.J., Napolitano, N.R., & Tortora, C., *Mon. Not. R. Astron. Soc.*, in prep., “*Tests of Modified Newtonian Dynamics in all galaxy types*”

Salinas, R., Richtler, T., Lloyd-Davies, E., **Romanowsky, A.J.**, West, M.J., & Schuberth, Y. *Astron. Astrophys.*, in prep., “*Dynamics of the cluster Abell 545 and its “star pile”*”

Zepf, S.E., Bergond, G., Gebhardt K., Kundu, A., Rhode K.L., **Romanowsky, A.J.**, Sharples, R.M., & Shen, J., in prep., “*The kinematics of outer-halo globular clusters in NGC 4472*”

Unrefereed publications: (8 papers, 3 citations)

Cenko, S.B., Perley, D.A., Bloom, J.S., Hurley, K., Prochaska, J.X., Brodie, J., Singh, N., Arnold, J., **Romanowsky, A.**, Forbes, J.C., & Forbes, D. 2011, *Gamma ray bursts Coordinates Network Circulars*, #11874, “*GRB 110328A / Swift J164449.3+573451: Keck/DEIMOS Optical Spectroscopy*” : **2 citations**

Romanowsky, A.J., Brodie, J.P., Bullock, J.S., Ciardullo, R., Guhathakurta, P., Hoffman, L., Olsen, K.A.G., Primack, J.R., & van de Ven, G., *Astro2010 Science White Paper*, “*Structure and substructure of galactic spheroids*”, arXiv:0902.3025

Olsen, K.A.G., **Romanowsky, A.J.**, Saha, A., Skillman, E., Williams, B.F., & Wyse, R.F.G., *Astro2010 Science White Paper*, “*The star formation histories of disk and E/S0 galaxies from resolved stars*”, arXiv:0902.4216

Berger, E., **Romanowsky, A.**, Vega, C. 2006, *Gamma ray bursts Coordinates Network Circulars*, #5929, “*GRB 061217: Magellan Observations*”

Romanowsky, A.J., Richtler, T.R. 2006, Newsletter de SOCHIAS, 4, 5–8, “*Spotlight on dark matter in L^* ellipticals*”

Merrifield, M.R., Douglas, N.G., Kuijken, K., & **Romanowsky, A.J.** 2001, The ING Newsletter, 5, 17, “*The Planetary Nebula Spectrograph successfully commissioned*” : **1 citation**

Romanowsky, A.J., Douglas, N.G., Arnaboldi, M., & Kuijken, K. 2001, The ING Newsletter, 4, 23–25, “*Extragalactic planetary nebula kinematics with the WHT*”

Gerssen, J., **Romanowsky, A.J.**, Douglas, N.G., Kuijken, K., Merrifield, M.R., & Mathieu, A. 2000, in *Stellar Kinematics in Disk Galaxies*, Ph.D. Thesis, Rijksuniversiteit Groningen, 63–71, “*Dark halos in S0 galaxies: NGC 5866*”

Conference proceedings: (44 papers, 75 citations)

Coccatto, L., Gerhard, O., Arnaboldi, M., Das, P., Douglas, N.G., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Noordermeer, E., **Romanowsky, A.J.**, Capaccioli, M., Cortesi, A., De Lorenzi, F., & Freeman, K.C. 2010, in *Highlights of Astronomy*, Vol. 15, ed. I.F. Corbett (Cambridge: Cambridge Univ. Press), 68, “*Kinematic properties of early-type galaxy halos using planetary nebulae*”

Proctor, R.N., Forbes, D.A., **Romanowsky, A.J.**, Brodie, J.P., Strader, J., Spolaor, M., Mendel, J.T., & Spitler, L. 2010, in *Highlights of Astronomy*, Vol. 15, ed. I.F. Corbett (Cambridge: Cambridge Univ. Press), 67, “*Probing the 2-D kinematic structure of early-type galaxies out to 3 effective radii*”

Romanowsky, A.J. 2010, in *Hunting for the Dark: The Hidden Side of Galaxy Formation*, ed. V.P. Debattista & C.C. Popescu (New York: AIP), 1240, 351–354, “*Digging for formational clues in the halos of early-type galaxies*” : **2 citations**

Proctor, R.N., Forbes, D.A., **Romanowsky, A.J.**, Brodie, J.P., Strader, J., Spolaor, M., Mendel, J.T., & Spitler, L. 2010, in *Hunting for the Dark: The Hidden Side of Galaxy Formation*, ed. V.P. Debattista & C.C. Popescu (New York: AIP), 1240, 339–342, “*Probing the 2-D kinematic structure of early-type galaxies out to 3 effective radii*” : **1 citation**

Cortesi, A., Merrifield, M.R., Noordermeer, E., Coccatto, L., Bamford, S., Napolitano, N.R., Arnaboldi, M., Gerhard, O., **Romanowsky, A.J.**, Das, P., Douglas, N.G., Kuijken, K., Freeman, K.C., & Capaccioli, M. 2010, in *Hunting for the Dark: The Hidden Side of Galaxy Formation*, ed. V.P. Debattista & C.C. Popescu (New York: AIP), 1240, 289–290, “*Revealing S0 galaxies’ formation histories using the stellar kinematics of the faint outer disks*”

Zepf, S.E., Bergond, G., Gebhardt, K., Kundu, A., Rhode, K., **Romanowsky, A.**, & Shen, J. 2010, *Bull. Amer. Astron. Soc.*, 41, 529 (347.07), “*Constraints on the black hole mass and dark matter halo of NGC 4472 from globular cluster kinematics*”

Das, P., Gerhard, O., Coccatto, L., Churazov, E., Forman, W., Finoguenov, A., Böhringer, H., Arnaboldi, M., Capaccioli, M., Cortesi, A., de Lorenzi, F., Douglas, N.G., Freeman, K.C., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Noordermeer, E., & **Romanowsky, A.J.** 2008, *Astron. Nachr.*, 329, 940–943, “*The orbital structure of the massive elliptical galaxy, NGC 5846*”

- Coccatto, L., Gerhard, O., Arnaboldi, M., Das, P., Douglas, N.G., Kuijken, K., Merrifield, M.R., Napolitano, N.R., Noordermeer, E., **Romanowsky, A.J.**, Capaccioli, M., Cortesi, A., De Lorenzi, F., & Freeman, K.C. 2008, *Astron. Nachr.*, 329, 912–915, “*Probing the early-type galaxy halos using planetary nebulae as kinematic tracers*”
- Johnson, R., Ponman, T.J., **Romanowsky, A.J.**, & O’Sullivan, E. 2008, in Proc. ESAC workshop, X-rays from Nearby Galaxies, ed. S. Carpano, M. Ehle & W. Pietsch, 120–123, “*Dark halos in early-type galaxies*”
- De Lorenzi, F., Gerhard, O., Debattista, V. P., Sambhus, N., Coccatto, L., Arnaboldi, M., Capaccioli, M., Douglas, N. G., Freeman, K. C., Kuijken, K., Merrifield, M. R., Napolitano, N. R., Noordermeer, E., & **Romanowsky, A. J.** 2008, in Proc. IAU Symp. 245, Formation and Evolution of Galaxy Bulges, ed. M. Bureau, E. Athanassoula, & B. Barbuy (Cambridge: Cambridge Univ. Press), 27–30, “*Constraining the internal dynamics of stellar systems using the NMAGIC particle code*”
- Napolitano, N. R., **Romanowsky, A. J.**, Coccatto, L., Capaccioli, M., Douglas, N. G., Noordermeer, E., Merrifield, M. R., Kuijken, K., Arnaboldi, M., Gerhard, O., Freeman, K.C., De Lorenzi, F., & Das, P. 2008, in Proc. IAU Symp. 244, Dark Galaxies & Lost Baryons, ed. J.I. Davies & M.J. Disney (Cambridge: Cambridge Univ. Press), 289–294, “*Dark-matter content of early-type galaxies with planetary nebulae*” : **2 citations**
- Richtler T., Schuberth Y., & **Romanowsky, A.** 2009, in Globular Clusters – Guides to Galaxies, ed. T. Richtler & S. Larsen (Berlin: Springer), 453–454, “*The dark halo of NGC 1399 and MOND*”
- Romanowsky A. J.** 2009, in Globular Clusters – Guides to Galaxies, ed. T. Richtler & S. Larsen (Berlin: Springer), 433–443, “*Kinematics of globular cluster systems*” : **6 citations**
- Romanowsky A. J.** 2007, in ESO Astrophysics Symp., Groups of Galaxies in the Nearby Universe, ed. I. Saviane, V.D. Ivanov & J. Borissova (Berlin: Springer), 385–389, “*Probing the environment with galaxy dynamics*”
- Romanowsky A. J.** 2006, in Proc. IAU Symp. 234, Planetary Nebulae in our Galaxy and Beyond, ed. M. J. Barlow & R. H. Méndez (Cambridge: Cambridge Univ. Press), 341–348 “*Planetary nebulae as mass tracers in galaxies*” : **2 citations**
- Romanowsky A. J.** 2006, in XI IAU Regional Latin American Meeting of Astronomy, ed. L. Infante & M. Rubio, *RevMexAA SC*, 26, 198, “*Dynamics in galaxy halos*”
- Richtler T., Schuberth Y., & **Romanowsky A.J.** 2006, in XI IAU Regional Latin American Meeting of Astronomy, ed. L. Infante & M. Rubio, *RevMexAA SC*, 26, 198, “*NGC 1399 and MOND*” : **1 citation**
- Romanowsky A. J.** 2006, in EAS Publications Series, Vol. 20, Mass Profiles and Shapes of Cosmological Structures, ed. G. A. Mamon, F. Combes, C. Deffayet, & B. Fort (Paris: EDP Sciences), 119–126, “*Elliptical galaxy halo masses from internal kinematics*” : **5 citations**
- Napolitano, N. R., **Romanowsky, A. J.**, Capaccioli, M., Kuijken, K., Merrifield, M. R., Douglas, N. G., Arnaboldi, M., Freeman, K. C., & Gerhard, O. 2006, in ESO Astrophysics Symp., Planetary Nebulae beyond the Milky Way, ed. L. Stanghellini, J. R. Walsh, & N. G. Douglas (Berlin: Springer), 324–328, “*Planetary nebulae as dynamical tracers: mass-to-light-ratio gradients in early-type galaxies*”
- Romanowsky, A. J.** 2006, in ESO Astrophysics Symp., Planetary Nebulae beyond the Milky Way, ed. L. Stanghellini, J. R. Walsh, & N. G. Douglas (Berlin: Springer), 294–298, “*Probing halos with PNe: mass and angular momentum in early-type galaxies*” : **1 citation**

- Merrett, M., Merrifield, M., Kuijken, K., **Romanowsky, A.**, Douglas, N., Napolitano, N., Arnaboldi, M., Capaccioli, M., Freeman, K., Gerhard, O., Carter, D., Evans, N. W., Wilkinson, W., Halliday, C., & Bridges, T. 2006, in ESO Astrophysics Symp., Planetary Nebulae beyond the Milky Way, ed. L. Stanghellini, J. R. Walsh, & N. G. Douglas (Berlin: Springer), 281–285, “*Mapping the stellar dynamics of M31*” astro-ph/0407331) : **2 citations**
- Romanowsky, A. J.**, Napolitano, N. R., Capaccioli, M., Douglas, N. G., Merrifield, M. R., Kuijken, K., Arnaboldi, M., Gerhard, O., & Freeman, K. C., 2004, Bull. Amer. Astron. Soc., 36, 5, 1397 (31.07), “*Halo masses of early-type galaxies: theory vs observation*”
- Zepf, S. E., Bergond, G., **Romanowsky, A. J.**, Rhode, K. L., & Sharples, R. M., 2004, Bull. Amer. Astron. Soc., 36, 5, 1397 (31.04), “*Some dynamical constraints on the halo of NGC 3379 from wide-field spectroscopy of its globular cluster system*” : **2 citations**
- Napolitano, N. R., **Romanowsky, A. J.**, Douglas, N. G., Capaccioli, M., Arnaboldi, M., Kuijken, K., Merrifield, M. R., Freeman, K. C., & Gerhard, O. 2004, Mem. S.A.It. Suppl., 5, 255-260, “*Galaxy dynamics with the Planetary Nebula Spectrograph*” : **1 citation**
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Merrifield, M. R., Arnaboldi, M., Napolitano, N. R., Merrett, H., Capaccioli, M., Freeman, K. C., & Gerhard, O. 2004, in Proc. IAU Symp. 220, Dark Matter in Galaxies, ed. S. Ryder, D. J. Pisano, M. Walker, & K. Freeman (San Francisco: ASP), 165–170, “*Elliptical galaxies: darkly cloaked or scantily clad?*” : **5 citations**
- Douglas, N. G., **Romanowsky, A. J.**, Kuijken, K., Merrifield, M. R., Napolitano, N. R., Arnaboldi, M., Freeman, K. C., Capaccioli, M., & Gerhard, O. 2004, in Proc. IAU Symp. 220, Dark Matter in Galaxies, ed. S. Ryder, D. J. Pisano, M. Walker, & K. Freeman (San Francisco: ASP), 171–172, “*Early-type galaxy halo dynamics inferred using the PN Spectrograph*”
- Napolitano, N. R., Capaccioli, M., Arnaboldi, M., Merrifield, M. R., Douglas, N. G., Kuijken, K., **Romanowsky, A. J.**, & Freeman, K. C. 2004, in Proc. IAU Symp. 220, Dark Matter in Galaxies, ed. S. Ryder, D. J. Pisano, M. Walker, & K. Freeman (San Francisco: ASP), 173–174, “*Is there a dichotomy in the dark matter as well as in the baryonic matter properties of ellipticals?*” : **4 citations**
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Merrifield, M. R., Arnaboldi, M., Merrett, H., Napolitano, N. R., Capaccioli, M., Freeman, K. C., Bergond, G., Sharples, R. M., Zepf, S. E., & Rhode, K. L. 2003, Bull. Amer. Astron. Soc., 35, 5, 1312 (65.05), “*Halo tracers in nearby galaxies*”
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Arnaboldi, M., Gerssen, J., & Merrifield, M. R. 2003, in Proc. IAU Symp. 209, Planetary Nebulae: Their Evolution and Role in the Universe, ed. S. Kwok, M. Dopita, & R. Sutherland (San Francisco: ASP), 639–640, “*Modern techniques in galaxy kinematics: Results from planetary nebula spectroscopy*”
- Douglas, N. G., Kuijken, K., **Romanowsky, A. J.**, Merrifield, M. R., Arnaboldi, M., Freeman, K., & Taylor, K. 2003, in Proc. IAU Symp. 209, Planetary Nebulae: Their Evolution and Role in the Universe, ed. S. Kwok, M. Dopita, & R. Sutherland (San Francisco: ASP), 637–638, “*Modern techniques in galaxy kinematics: CDI and the Planetary Nebula Spectrograph*”

- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Arnaboldi, M., Kissler-Patig, M., Sharples, R. M., Zepf, S. E., & Rhode, K. L. 2003, in ESO Astrophysics Symp., Extragalactic Globular Cluster Systems, ed. M. Kissler-Patig (Berlin: Springer), 310–313, “*Dynamics of stars and globular clusters in galaxy halos*” : **1 citation**
- Romanowsky, A. J.**, Arnaboldi, M., Douglas, N. G., Kuijken, K., Merrifield, M. R., Freeman, K. C., & Geressen, J. 2003, in Galaxy Evolution: Theory and Observations, ed. V. Avila-Reese, C. Firmani, C. S. Frenk, & C. Allen, RevMexAA SC 17, 45, “*Dynamical constraints on early-type galaxy halos*” : **1 citation**
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Merrifield, M. R., Arnaboldi, M., Freeman, K. C., & Taylor, K. 2003, in ESO Astrophysics Symp., The Mass of Galaxies at Low and High Redshift, ed. R. Bender & A. Renzini (Berlin: Springer), 72–73, “*Mass distributions in early-type galaxy halos*”
- Romanowsky, A. J.** 2002, in Proc. IAU Symp. 207, Extragalactic Star Clusters, ed. D. Geisler, E. K. Grebel, & D. Minniti (San Francisco: ASP), 336–338, “*Dynamics of globular cluster systems in elliptical galaxies*”
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., Merrifield, M. R., Arnaboldi, M., Freeman, K. C., & Taylor, K. 2001, Bull. Amer. Astron. Soc., 33, 4, 1533 (153.03), “*Tracing early-type galaxy halo dynamics*” : **1 citation**
- Romanowsky, A. J.**, Douglas, N. G., Kuijken, K., & Arnaboldi, M. 2001, Bull. Amer. Astron. Soc., 2001, 33, 1, 719 (134.01), “*Kinematics of planetary nebulae in NGC 4472*”
- Romanowsky, A. J.**, & Kochanek, C. S. 2001, in Dynamics of Star Clusters and the Milky Way, ed. S. Deiters, B. Fuchs, A. Just, R. Spurzem, & R. Wielen (San Francisco: ASP), 556–558, “*Dynamics of the Sgr A* cluster*” : **1 citation**
- Romanowsky, A. J.** 2000, Bull. Amer. Astron. Soc., 32, 2, 694 (16.01), “*Halo dynamics of elliptical galaxies*” : **1 citation**
- Romanowsky, A. J.**, & Kochanek, C. S. 2000, in ASP Conf. Ser. Vol. 197, XVth IAP Meeting, Dynamics of Galaxies: From the Early Universe to the Present, ed. F. Combes, G. A. Mamon, & V. Charmandaris (San Francisco: ASP), 401–402, “*Halo dynamics of M87*” : **1 citation**
- Romanowsky, A. J.**, & Kochanek, C. S. 1999, Bull. Amer. Astron. Soc., 1999, 31, 1, 666 (123.01), “*Stellar dynamics at the Galactic center*”
- Romanowsky, A. J.** 1999, in ASP Conf. Ser. Vol. 182, Galaxy Dynamics, A Rutgers Symposium, ed. D. Merritt, J. A. Sellwood, & M. Valluri (San Francisco: ASP), 158–159, “*A global dynamical model of M87*”
- Romanowsky, A. J.** 1998, in ASP Conf. Ser. Vol. 136, Galactic Halos: A UC Santa Cruz Workshop, ed. D. Zaritsky (San Francisco: ASP), 317–319, “*Orbit modeling of the lensing galaxy in 0957+561*”
- Romanowsky, A. J.**, & Kochanek, C. S. 1997, in ASP Conf. Ser. Vol. 116, The Second Stromlo Symposium: The Nature of Elliptical Galaxies, ed. M. Arnaboldi, G. S. Da Costa, & P. Saha (San Francisco, ASP), 107–108, “*New projections of triaxiality*”
- Domier, C. W., Luhmann, N. C., Jr., Chao, A. E., Zhang, W.-M., & **Romanowsky, A. J.** 1995, Rev. Sci. Instrum., 66, 399–401, “*Ultrashort-pulse reflectometry*” : **35 citations**

Professional talks given:

- Colloquium, New Mexico State University, 28 Oct 2011, "*The assembly of galaxy halos: chemodynamics beyond the Local Group*"
- Talk, Santa Cruz Galaxy Workshop, 11 Aug 2011, "*Constraints on galaxy formation from angular momentum*"
- Seminar, Universidad de Concepción, 11 Apr 2011, "*Two-phase Assembly of Early-type Galaxies*"
- Contributed talk, Dynamics of Low-Mass Stellar Systems: From Star Clusters to Dwarf Galaxies, European Southern Observatory, Santiago, 7 Apr 2011, "*The Origins of Globular Clusters and Ultra-compact Dwarfs around Massive Ellipticals*"
- Seminar, Universidad de Valparaíso, 6 Apr 2011, "*Asamblea en dos fases de las galaxias de tipo temprano*"
- Talk, Keck Science Meeting 2010, Berkeley, 15 Oct 2010, "*Tracing the Modes of Early-type Galaxy Formation with Halo Rotation*"
- Colloquium, Case Western Reserve University, 29 Sep 2010, "*Formational Clues in Galaxy Halos*"
- Talk, Santa Cruz Galaxy Workshop, 17 Aug 2010, "*Kinematic Signatures of Galaxy Formation*"
- Cosmoclub talk, University of California, Santa Cruz, 21 May 2010 (with Joel Primack), "*Bolshoi Simulation Halos and Galaxies Compared with Observations*"
- Cosmoclub talk, University of California, Santa Cruz, 5 Apr 2010, "*Dark Matter from Recycled Data*"
- Friday lunch seminar, University of California, Santa Cruz, 5 Mar 2010, "*Low-redshift Signatures of Early-type Galaxy Formation: Dark Matter*"
- Contributed talk, Hunting for the Dark: The Hidden Side of Galaxy Formation, Malta, 22 Oct 2009, "*Digging for Formational Clues in the Halos of Early-type Galaxies*"
- Contributed talk, Unveiling the Mass: Extracting and Interpreting Galaxy Masses, Queens University, 16 June 2009, "*Multiple Probes of Dark Matter in Early-type Galaxies*"
- Seminar, University of California, Irvine, 19 May 2009, "*Archaeology of Early-type Galaxy Halos*"
- Panel presentation, The Local Volume: Constraints on Galaxy Formation and Evolution, European Week of Astronomy and Space Science, University of Hertfordshire, 21 Apr 2009
- Seminar, University of California, Santa Barbara, 4 Mar 2009, "*Mass and Angular Momentum in Early-type Galaxies*"
- Guest lecture, 25 Feb 2009, Structure Formation in the Universe, University of California, Santa Cruz, "*Early-type Galaxies: Dark Matter and Dynamics*"
- Talk, Formation and Evolution of Globular Clusters, Kavli Institute for Theoretical Physics, Santa Barbara, 15 Jan 2009, "*Surveying the Dynamical Structure of Globular Cluster Systems*"
- Colloquium, San Francisco State University, 6 Oct 2008, "*Galactic Fundamentals: Dark Matter and Dynamics*"
- Talk, Keck Science Meeting 2008, Santa Cruz, 18 Sep 2008, "*Dark Matter, Dynamics, and Rotation in Early-type Galaxy Halos*"
- Talk, Santa Cruz Galaxy Workshop 2008, Santa Cruz, 27 Aug 2008, "*Kinematics and Dark Matter in Galaxy Halos*"
- Contributed talk, Galactic Structure and the Structure of Galaxies, Ensenada, 18 Mar 2008, "*Observing the Halos of Ellipticals*"
- Friday lunch seminar, University of California, Santa Cruz, 22 Feb 2008, "*Dark Matter Multi-Modalities in Elliptical Galaxies*"

Colloquium, AURA, La Serena, 19 Apr 2007, “*Early-type Galaxies: Dynamics and Dark Matter Dichotomies*”

Contributed talk, Third Chilean Advanced School of Astrophysics: Insights into Galaxy Evolution from Resolved Stellar Populations, Concepción, 8 Jan 2007, “*Planetary Nebulae as Resolved Stellar Tracers: Kinematics, Abundances, and X-ray Binaries*”

Oral contribution, Quinta Reunión Anual de la Sociedad Chilena de Astronomía, La Serena, 29 Nov 2006, “*Dark Matter Lost or Found? – Critical Tests in Elliptical Galaxies*”

Invited review, IAU Symposium 234: Planetary Nebulae in Our Galaxy and Beyond, 9 Apr 2006, “*Planetary Nebulae as Mass Tracers in Galaxies*”

Invited review, Globular Clusters - Guides to Galaxies, Concepción, 9 Mar 2006, “*Kinematics of Globular Cluster Systems*”

Talk, Groups of Galaxies in the Nearby Universe, Santiago, 9 Dec 2005, “*Internal Dynamics of Galaxies and Groups*”

Talk, Nearly Normal Galaxies, University of California, Santa Cruz, 11 Aug 2005, “*Dark Matter in Early-Type Galaxy Halos*”

Invited review, XXIst IAP Colloquium, Mass Profiles and Shapes of Cosmological Structures, Paris, 6 Jul 2005, “*Elliptical Galaxy Halo Masses from Internal Kinematics*”

Talk, Observatorio Astronómico de La Plata, 27 May 2005, “*A Closer Look at the Kinematics of Globular Cluster Systems*”

Seminar, Observatorio Astronómico de La Plata, 26 May 2005, “*Dark Matter and Dynamics in Galaxy Halos*”

Colloquium, AURA, La Serena, 11 Mar 2005, “*Dark Matter and Dynamics in Galaxy Halos*”

Contributed talk, Cuarta Reunión Anual de la Sociedad Chilena de Astronomía, Concepción, 14 Jan 2005, “*Materia Oscura y Dinámicas en los Halos de Galaxias*”

Oral paper, 205th AAS Meeting, San Diego, 10 Jan 2005, “*Halo Masses of Early-type Galaxies: Theory vs Observation*”

Talk, The First Symposium on Magellan Science, Pasadena, 8 Jan 2005, “*Extragalactic Stellar Populations*”

Talk, PPARC Panel, University of Nottingham, 8 Oct 2004, “*Elliptical Galaxy Dynamics*”

Talk, Galaxies Viewed with Chandra Workshop, Cambridge, MA, 8 Jul 2004, “*Early-type Galaxy Masses: the X-factor*”

Contributed talk, Planetary Nebulae Beyond the Milky Way, Garching, 21 May 2004, “*Probing Halos with PNe: Mass and Angular Momentum in Early-Type Galaxies*”

Lunchtime astronomy talk, School of Physics and Astronomy, University of Nottingham, 11 May 2004, “*Combining Probes of Early-Type Galaxy Haloes*”

Seminar, Jodrell Bank Observatory, 5 May 2004, “*Mass, Spin and Orbits in Galaxy Haloes*”

Seminar, Isaac Newton Group, 21 Apr 2004, “*Observing Galaxy Haloes*”

Oral contribution, UK National Astronomy Meeting, Milton Keynes, 31 Mar 2004, “*Nearby Elliptical Galaxy Haloes: Neither Hot nor Dizzy*”

Extra-galactic seminar, School of Physics and Astronomy, The University of Birmingham, 18 Feb 2004, “*Multi-Pronged Probing of Galaxy Haloes*”

Talk, Extragalactic Science Club, Astrophysikalisches Institut Potsdam, 10 Feb 2004, “*Observational Constraints on Galaxy Haloes*”

Oral paper, 203th AAS Meeting, Atlanta, 6 Jan 2004, “*Halo Tracers in Nearby Galaxies*”

Talk, European Southern Observatory, Garching, 27 Nov 2003, “*Probes of Galaxy Haloes*”

Talk, Virgo Consortium meeting, Institute for Computational Cosmology, University of Durham, 19 Nov 2003, “*Early-Type Galaxy Haloes at $z = 0$* ”

Seminar, Astrophysics Research Institute, Liverpool John Moores University, 29 Oct 2003, “*Galaxy Haloes Exposed!*”

Colloquium, Institute of Astronomy, Cambridge University, 23 Oct 2003, “*Kinematical Probes of Galaxy Haloes*”

Talk, 58th Meeting of the American Scientific Affiliation, Lakewood, 28 Jul 2003, “*Dark Matter in Galaxies*”

Contributed oral paper, IAU Symposium 220: Dark Matter in Galaxies, Sydney, 22 Jul 2003, “*Elliptical Galaxies: Darkly Cloaked or Scantily Clad?*”

Astrophysics seminar, Oxford University, 13 May 2003, “*Mass and Angular Momentum in Elliptical Galaxy Haloes*”

Lunchtime astronomy talk, School of Physics and Astronomy, University of Nottingham, 1 May 2003, “*Is Dark Matter De-MONDED? –or– What Will It Take to Kill This Theory?*”

Oral contribution, UK National Astronomy Meeting, Dublin, 9 Apr 2003, “*Mass and Angular Momentum in Elliptical Galaxy Haloes*”

Astronomy group seminar, School of Physics and Astronomy, University of Nottingham, 29 Jan 2003, “*Elliptical Galaxies: Where Has All the Dark Matter Gone?*”

Guest lecture, Astronomy: Discovering the Universe, Westmont College, 11 Sep 2002, “*Galaxy Exploration*”

Colloquium, Leiden Observatory, 21 Feb 2002, “*Exploring and Exploiting Early-Type Galaxy Halos*”

Oral paper, 199th AAS Meeting, Washington, 10 Jan 2002, “*Tracing Early-Type Galaxy Halo Dynamics*”

Talk, Ringberg Workshop on the Formation and Evolution of Giant Elliptical Galaxies, 27 Nov 2001, “*Probing the Halos of Nearby Early-Type Galaxies*”

Guest lecture, Observational Techniques 1, Rijksuniversiteit Groningen, 16 Oct 2001, “*Planetary Nebulae as Probes of Elliptical Galaxy Halos*”

Talk, SAURON Team Meeting, Leiden, 6 Jul 2001, “*Planetary Nebula Spectrograph: Mapping Elliptical Galaxy Halos*”

Lunch talk, Kapteyn Astronomical Institute, 2 Jul 2001, “*A New Technique for Planetary Nebula Spectroscopy in Elliptical Galaxies*”

Lunchtime astronomy talk, School of Physics and Astronomy, University of Nottingham, 28 Jun 2001, “*Exploring and Exploiting Elliptical Galaxy Halos*”

Dissertation paper, 196th AAS Meeting, Rochester, 5 Jun 2000, “*Halo Dynamics of Elliptical Galaxies*”

Seminar, Isaac Newton Group, 29 May 2000, “*The Planetary Nebula Spectrograph for La Palma: Measuring and Modelling Galaxy Kinematics*”

Lunch talk, Kapteyn Astronomical Institute, 1 Mar 2000, “*Extragalactic Globular Clusters and Galaxy Formation*”

Ph.D. colloquium, Harvard-Smithsonian Center for Astrophysics, 28 Sep 1999, “*Mass Estimates of Anisotropic Stellar Systems*”

Thesis talk, Harvard-Smithsonian Center for Astrophysics, 24 Sep 1999, “*The Structure and Dynamics of Galaxies*”

Talk, Lorenz Center Workshop on Dynamics of Galaxies, Leiden, 21 Jul 1999, “*Dynamics with Discrete Velocities*”

Colloquium, Kapteyn Astronomical Institute, 11 Mar 1999, “*Velocity Dispersions of Lens Galaxies*”

General-interest talks given:

Talk, 1^a Jornada de Reflexión entre Académicos Cristianos Acerca de Ciencia y Fe, Universidad de Concepción, 10 June 2005, “*Fine Tuning and Design Arguments*”

Presentation, Transforming the Mind: Christian Stewardship in Academia conference, Dovedale, 28 Jun 2003, “*Invisibly Framed*”

Presentation/discussion, The Forum, Oxford University Graduate Christian Union, 20 Feb 2003, “*How the Heavens Go: Beauty and Purpose in the Cosmos*”

Presentation/discussion, Graduate Christian Fellowship, University of Nottingham, 24 Jan 2003, “*How the Heavens Go: Beauty and Purpose in the Cosmos*”

Observing experience:

9.5 nights, Keck (10-meter)

5 nights, Subaru (8-meter)

3 nights, Very Large Telescope (8-meter)

12 nights, Magellan (6.5-meter)

57 nights, William Herschel Telescope (4-meter)

2 nights, Victor M. Blanco Telescope (4-meter)

Slitless spectrograph (PN.S, IMACS)

Multifiber spectrograph (WYFFOS)

Multislit spectrographs (FORS2, LDSS-2, LDSS-3, GMOS, IMACS, DEIMOS)

Wide-field optical imagers (Suprime-Cam, MOSAIC II, IMACS)

Infrared imager (PANIC)

Software knowledge:

c, c++

FORTRAN

IRAF

SExtractor

Mathematica

SM

LaTeX

HTML

Languages spoken:

English – native

Nederlands (Dutch) – competent

Castellano (Spanish) – competent

Research interests:

Dynamics (stellar clusters, galaxies)

Galaxy structure, formation and evolution

Globular cluster systems

Dark matter and alternative gravities

Telescope time awards:

- 13610808/GO-12759, 1000ks, *Chandra X-ray Observatory/ACIS-S X-ray Visionary Project*, + 3 orbits, *Hubble Space Telescope/ACS*, “*A Chandra Legacy Project to Resolve the Accretion Flow of Gas Captured by a Supermassive Black Hole*” (PI: J. Irwin)
- 2011B_U028D, 2D, W.M. Keck Observatory, DEIMOS, 2012, “*A New Window on Galaxy Formation: Surveying the Chemo-Dynamics of Early-Type Galaxy Halos*” (PI: J. Brodie)
- 067087, 103ks, priority B, *XMM-Newton*, “*Mass, Enrichment, and Entropy in a Typical Isolated Elliptical Galaxy*” (PI: T. Jeltema)
- 2011A_U066SC, 1D, Subaru Telescope, Suprime-Cam, 1 May 2011, “*Constraining Galaxy Merger Histories through Disk Heating*” (PI: J. Bullock)
- 2011A_U025D, 3D, W.M. Keck Observatory, DEIMOS, 28–30 Mar 2011, “*A New Window on Galaxy Formation: Surveying the Chemo-Dynamics of Early-Type Galaxy Halos*” (PI: J. Brodie)
- w11an017, 5D, William Herschel Telescope, PN.Spectrograph, 6–10 Mar 2011, “*The PN.S Elliptical Galaxy Survey*” (PI: K. Kuijken)
- W/2011A/16, 4D, William Herschel Telescope, PN.Spectrograph, 1–5 Mar 2011, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)
- GN-2010B-C-204, 1D, Subaru Telescope, Suprime-Cam, 4 Jan 2011, “*Resolved Tracers of Substructure in Galaxy Halos*” (PI: A. Romanowsky)
- 2010B_U132SC, 1D, Subaru Telescope, Suprime-Cam, 3 Jan 2011, “*Subaru Imaging of Globular Clusters in Early-Type Galaxies*” (PI: J. Brodie)
- W/2010B/5, 4D, William Herschel Telescope, PN.Spectrograph, 3–6 Jan 2011, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)
- W10BN003, 4D, William Herschel Telescope, PN.Spectrograph, 30 Dec 2010–2 Jan 2011, “*The PN.S Elliptical Galaxy Survey*” (PI: K. Kuijken)
- 086.B-0799, 3N, New Technology Telescope, EFOSC2+SOFI, 6–8 Nov 2010, “*The First All-near-infrared Fundamental Plane of Early-type Galaxies*” (PI: J. Vanderbeke)
- 2010B-0561, 6B, CTIO-1.0m, CFIM+4K, 15–20 Oct 2010, “*The Multi-wavelength Fundamental Plane in the Fornax Cluster*” (PI: A. Romanowsky)
- 2010A_U114SC, 1D, Subaru Telescope, Suprime-Cam, 11 Apr 2010, “*Subaru Imaging of Globular Clusters in Early-Type Galaxies*” (PI: J. Brodie)
- w10an003, 5D, William Herschel Telescope, PN.Spectrograph, 15–19 Mar 2010, “*Outer Kinematics of Nearby Early-type Galaxies with the PN.S*” (PI: K. Kuijken)
- W/2010A/10, 5D, William Herschel Telescope, PN.Spectrograph, 10–14 Mar 2010, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)
- 2010A_U050D, 4D, W.M. Keck Observatory, DEIMOS, 9–12 Mar 2010, “*A New Window on Galaxy Formation: Surveying the Chemo-Dynamics of Early-Type Galaxy Halos*” (PI: J. Brodie)
- 2009B_U154D, 2D, W.M. Keck Observatory, DEIMOS, 11–12 Jan 2010, “*A New Window on Galaxy Formation: Surveying the Chemo-Dynamics of Early-Type Galaxy Halos*” (PI: J. Brodie)
- W/2009B/9, 3D, William Herschel Telescope, PN.Spectrograph, 14–16 Dec 2009, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)
- w09bn003, 3D, William Herschel Telescope, PN.Spectrograph, 11–13 Dec 2009, “*The PN.S Elliptical Galaxy Survey*” (PI: N. Douglas)
- G/2009A/020, 1D, Subaru Telescope, Suprime-Cam, 20 Apr 2009, “*A novel probe of galaxy group dark matter halos*” (PI: A. Romanowsky)

W/2009A/3, 5D, William Herschel Telescope, PN.Spectrograph, 25–29 Mar 2009, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)

W09AN002, 5D, William Herschel Telescope, PN.Spectrograph, 20–24 Mar 2009, “*Continuation of the Planetary Nebula Spectrograph Elliptical Galaxy Survey*” (PI: N. Douglas)

082.B-0897, 21.6hr-Class B, Very Large Telescope, ISAAC, “*The first all-near-infrared Fundamental Plane of early-type galaxies*” (PI: M. Baes)

2008B_U056D, 2D, W. M. Keck Observatory, DEIMOS, 28–29 Dec 2008, “*Kinematics of globular clusters in early-type galaxies*” (PI: J. Brodie)

W/2008B/25, 2D, William Herschel Telescope, PN.Spectrograph, 29–30 Nov 2008, “*The PN.S Elliptical Galaxy Survey*” (PI: M. Merrifield)

2008B_U067SC, 2D, Subaru Telescope, Suprime-Cam, 28–29 Nov 2008, “*Wide-field imaging of elliptical galaxy halos*” (PI: J. Brodie)

8B29 (2877), 6B, Shane Telescope, AO-LGS/IRCAL, 8–11 Sep, 19–20 Oct 2008 (PI: J. Arnold)

GS-2008B-Q-37, 25.2hr-Band 2, Gemini South, GMOS-South: “*Is there dark matter in NGC 7507?*” (PI: T. Richtler)

2008A_U093D, 2D, W. M. Keck Observatory, DEIMOS, 7–10 Apr 2008, “*Kinematics of globular clusters in early-type galaxies*” (PI: J. Brodie)

W08AN010, 12D, William Herschel Telescope, PN.Spectrograph, 5–9 Apr, 27–28 Nov 2008, “*Outer kinematics of nearby early-type galaxies with the PN.S*” (PI: N. Douglas)

2007B_U132D, 2D, W. M. Keck Observatory, DEIMOS, 11–14 Nov 2007, “*Kinematics of globular clusters in the giant elliptical NGC 1407: a dark group?*” (PI: J. Brodie)

080.B-0529, 21.8hr-Class A, Very Large Telescope, FORS2, “*A unique test case for dark matter profiles: the dynamics of Abell 545 and its ‘star pile’*” (PI: R. Salinas)

080.B-0650, 4D, Very Large Telescope, FORS2, 7–10 Mar 2008, “*Deep stellar kinematics of ordinary elliptical galaxies*” (PI: N. Napolitano)

GS-2007B-Q-9, 21hrD-Band 1, Gemini South, GMOS-South, “*Where dark matter shines: dynamics of Abell 545 and its ‘star pile’*” (PI: R. Salinas)

4D/G, Walter Baade Telescope, IMACS, 20–23 Apr 2007, “*Dark matter lost or found? – the definitive dynamical portrait of an ordinary elliptical galaxy*” (PI: **A. Romanowsky**)

079.B-0622, 21hr-Class A, Very Large Telescope, VIMOS, “*Mapping the transition between dark and luminous matter in ordinary elliptical galaxies*” (PI: N. Napolitano)

079.B-0480, 14hr-Class A, Very Large Telescope, VIMOS, “*A laboratory for galaxy interactions – the Antlia cluster*” (PI: T. Richtler)

079.B-0848, 14hr-Class A, Very Large Telescope, FORS2, “*Dark matter lost or found? – the definitive dynamical portrait of an ordinary disk elliptical galaxy*” (PI: **A. Romanowsky**)

P22-07A, 4D, William Herschel Telescope, PN.Spectrograph, 18–21 Feb 2007, “*The PN.S elliptical galaxy survey*” (PI: M. Merrifield)

N9-07A, 5D, William Herschel Telescope, PN.Spectrograph, 13–17 Feb 2007, “*Outer kinematics of nearby early-type galaxies with the PN.S*” (PI: K. Kuijken)

GS-2007A-Q-42, 12hrD-Band 2, Gemini South, GMOS-South, “*Dark matter lost or found? – the definitive dynamical portrait of an ordinary disk elliptical galaxy*” (PI: **A. Romanowsky**)

SAO, 1.5D, Walter Baade Telescope, IMACS, 15–17 Jan 2007, “*Constraining the dark matter halo of NGC 4636*” (PI: E. O’Sullivan)

078.B-0856, 18hr-Class A, Very Large Telescope, FORS2, “*A close look at the merger remnant NGC 1316: kinematics of its globular cluster system*” (PI: T. Richtler)

GS-2006B-Q-69, 4hrD-Band 3, Gemini South, GMOS-South, “*The ‘star pile’ in Abell 545*” (PI: T. Richtler)

3D+2G, Walter Baade Telescope, IMACS, 14–16 Dec 2006, 10–11 Jan 2007, “*Lost in space: Intergalactic stars in the Fornax Cluster*” (PI: A. Romanowsky)

2N, Landon Clay Telescope, LDSS-3, 23–24 Nov 2006, “*Uncovering the nature of the color-metallicity relation of globular clusters: Is the GC metallicity distribution really bimodal?*” (PI: L. Infante)

N4-06B, 1D+2G, William Herschel Telescope, PN.Spectrograph, 26–28 Oct 2006, “*Understanding the origins of lenticular galaxies using their planetary nebulae*” (PI: L. Coccato)

P21-06B, 3D, William Herschel Telescope, PN.Spectrograph, 23–25 Oct 2006, “*Understanding the origins of lenticular galaxies using their planetary nebulae*” (PI: E. Noordermeer)

1G, Walter Baade Telescope, IMACS, 2 Jul 2006, “*Dark matter amok: definitive dynamical portraits of elliptical galaxies*” (PI: A. Romanowsky)

U/06A/40, 13hB, United-Kingdom Infra-Red Telescope, WFCAM, 13–15 May 2006, “*Photometry of globular clusters and galaxy light in the Virgo Cluster*” (PI: A. Romanowsky)

077.B-0684, 15hrD+1hrG-Class A, Very Large Telescope, FORS2, “*Dark matter lost or found? – the definitive dynamical portrait of an ordinary boxy elliptical galaxy*” (PI: A. Romanowsky)

GS-2006A-Q-66, 15hrD+2hrG-Band 3, Gemini South, GMOS-South, “*Dark matter lost or found? – the dynamical portrait of an ordinary disk elliptical galaxy*” (PI: A. Romanowsky)

P37-05A, 4D, William Herschel Telescope, PN.Spectrograph, 27–30 Mar 2006, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: M. Merrifield)

SAO-12, 1D, MMT, Megacam, 26 Jan 2006, “*Globular clusters as mass tracers in elliptical galaxy haloes*” (PI: E. O’Sullivan)

076.B-0788, 32hrD-Class B, Very Large Telescope, FORS2, “*Deep stellar kinematics of ordinary elliptical galaxies*” (PI: L. Coccato)

076.B-0446, 10hrD-Class B, Very Large Telescope, FLAMES/GIRAFFE, “*Globular cluster kinematics and constraints on the dark matter content of NGC 3379*” (PI: G. Bergond)

076.B-0154, 20hrD+1hrG-Class A, Very Large Telescope, VIMOS, “*The dark halo of NGC 3311*” (PI: T. Richtler)

2G, Landon Clay Telescope, LDSS-3, 4–5 Dec 2005, “*Globular cluster kinematics in the super halo of Eridanus A*” (PI: A. Romanowsky)

4N, Walter Baade Telescope, IMACS, 6 Sep, 4–6 Nov 2005, “*Kinematics and stellar populations of a complete sample of early-type galaxies, dwarf nuclei and ultra compact dwarfs in the Fornax cluster*” (PI: A. Jordán)

2005B-0098, 2D, Victor M. Blanco Telescope, MOSAIC II, 5–6 Aug 2005, “*Globular cluster systems in field elliptical galaxies*” (PI: A. Romanowsky)

030254, 35.2 ks, priority B, XMM-Newton, “*Dark matter in elliptical galaxies*” (PI: E. O’Sullivan)

075.B-0516, 8hrD-Class B, Very Large Telescope, FLAMES/GIRAFFE, “*Searching for angular momentum in the outer halo of the giant elliptical galaxy NGC 4472*” (PI: G. Bergond)

P37-05A, 5D, William Herschel Telescope, PN.Spectrograph, 6–10 Apr 2005, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: M. Merrifield)

N14-05A, 3D+2G, William Herschel Telescope, PN.Spectrograph, 1–5 Apr 2005, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: N. Douglas)

2005A-0353, 2D, Victor M. Blanco Telescope, MOSAIC II, 12–13 Mar 2005, “*Globular cluster systems in faint elliptical galaxies*” (PI: A. Romanowsky)

GS-2004B-Q-75, 16hrG-Band 4, Gemini South, GMOS-South, “*Is there dark matter in NGC 7507?*” (PI: T. Richtler)

GS-2004B-Q-29, 16hrG-Band 2, Gemini South, GMOS-South, “*The dynamics of the outer cluster system of NGC 1399*” (PI: T. Richtler)

U/2004B/29, 20hrs backup, United-Kingdom Infra-Red Telescope, WFCAM, “*Photometry of globular clusters and stellar light in nearby early-type galaxies*” (PI: **A. Romanowsky**)

06610666, Cycle 6 accepted archive proposal, Chandra X-ray Center, “*Dark matter in elliptical galaxies*” (PI: E. O’Sullivan)

2G, Landon Clay Telescope, LDSS-2, 8–9 Sep, 19 Oct 2004, “*Kinematics of the globular cluster system of NGC 1316*” (PI: T. Richtler)

P38-03A, 6D, William Herschel Telescope, PN.Spectrograph, 16–21 Apr 2004, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: M. Merrifield)

N12-04A, 2D+2G, William Herschel Telescope, PN.Spectrograph, 12–15 Apr 2004, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: N. Douglas)

072.B-0384, 8hrD-Class A, Very Large Telescope, FLAMES/GIRAFFE, “*The kinematics of globular clusters in the outer halos of elliptical galaxies*” (PI: R. Sharples)

N14-03B, 1G+2B, William Herschel Telescope, PN.Spectrograph, 3–5 Oct 2003, “*A deep kinematic survey of planetary nebulae in M31*” (PI: N. Douglas)

P32-03B, 1D+3G, William Herschel Telescope, PN.Spectrograph, 29 Sep–2 Oct 2003, “*A deep kinematic survey of planetary nebulae in M31*” (PI: H. Merrett)

N1-03B, 4G+2B, Isaac Newton Telescope, Wide Field Camera, “*A survey for halo planetary nebulae in M31*”, 16–21 Aug 2003 (PI: K. Kuijken)

071.B-0537, 9hrD-Class B, Very Large Telescope, FLAMES/GIRAFFE, “*The kinematics of globular clusters in the outer halos of elliptical galaxies*” (PI: R. Sharples)

P38-03A, 4D, William Herschel Telescope, PN.Spectrograph, 4–7 Mar 2003, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: M. Merrifield)

N8-03A, 4D, William Herschel Telescope, PN.Spectrograph, 28 Feb–3 Mar 2003, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: N. Douglas)

P64-02B, 3G, William Herschel Telescope, PN.Spectrograph, 11–13 Oct 2002, “*2000 planetary nebulae in M31: a kinematic survey with the PN.S*” (PI: M. Merrifield)

N2-02B, 2D+1G, William Herschel Telescope, PN.Spectrograph, 8–10 Oct 2002, “*2000 planetary nebulae in M31: a kinematic survey with the PN.S*” (PI: K. Kuijken)

N6-02A, 3G, William Herschel Telescope, AUTOFIB2/WYFFOS, 1–3 May 2002, “*Globular cluster kinematics at large radii in M49*” (PI: **A. Romanowsky**)

N5-02A, 4D, William Herschel Telescope, PN.Spectrograph, 11–14 Mar 2002, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: K. Kuijken)

P20-02A, 4D, William Herschel Telescope, PN.Spectrograph, 7–10 Mar 2002, “*Determining the dynamics of round elliptical galaxies using the PN.S*” (PI: M. Merrifield)

P12-01B, 3D, William Herschel Telescope, PN.Spectrograph, 16–18 Sep 2001, “*Planetary nebula kinematics of flattened early-type galaxies*” (PI: M. Merrifield)

N12-01B, 3D, William Herschel Telescope, PN.Spectrograph, 13–15 Sep 2001, “*Planetary nebula kinematics of flattened early-type galaxies*” (PI: K. Kuijken)

N11-01A, 2D, William Herschel Telescope, PN.Spectrograph, 18–19 Jul 2001, “*Planetary nebula kinematics of round elliptical galaxies*” (PI: K. Kuijken)

P51-01A, 1D+1G, William Herschel Telescope, PN.Spectrograph, 16–17 Jul 2001, “*Planetary nebula kinematics of round elliptical galaxies*” (PI: M. Merrifield)

067.B-0464, 3G, Very Large Telescope, FORS2/MXU, 28–30 Apr 2001, “*Planetary nebula kinematics in elliptical galaxy halos*” (PI: K. Kuijken)
N5-00A, 0.5D+1.5G, William Herschel Telescope, AUTOFIB2/WYFFOS, 25–28 May 2000, “*Planetary nebulae in Virgo cluster galaxies*” (PI: N. Douglas)