

Curriculum Vitae

Prof. Raffaella Schneider
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Personal information

Orcid ID: 0000-0001-9317-2888

Education

PhD degree in Physics, Sapienza University of Rome (02/2000)
PhD Advisors: Valeria Ferrari and Sabino Matarrese
Laurea (master) thesis in Physics, Sapienza University of Rome (07/1995)

Current and previous positions

Associate Professor at the Department of Physics, Sapienza University of Rome (since 2016)
Researcher (permanent) at INAF - Astronomical Observatory of Rome (2010 - 2016)
Researcher (permanent) at INAF - Astrophysical Observatory of Arcetri, Florence (2006-2010)
Senior Excellence Grant of Centro Studi e Ricerche "Enrico Fermi" (2003-2006)
Postdoc of the Astrophysical Observatory of Arcetri, Florence (2000-2002)
Visiting fellow, Niels Bohr Institute, Copenhagen (1994-1995)

Visiting scientist

Kavli Institute for Theoretical Physics, Santa Barbara (May-July 2016);
Institut d'Astrophysique Paris (March 2016)
University of Zurich (November 2015, March 2016)
Institute for Astronomy, Cambridge (December 2014)
Kavli Institute for Theoretical Physics, Santa Barbara (July 2013);
University of Texas, Austin (May 2010);
Dark Cosmology Center, Copenhagen (July 2009);
National Astronomical Observatory of Japan, Mitaka (January 2009);
Max Planck Institute for Astrophysics, (November 2008);
Dark Cosmology Center, Copenhagen (July 2008);
Institute for Nuclear Physics, Seattle (July 2006);
Kavli Institute for Theoretical Physics, Santa Barbara (November 2004).

Awards

National scientific qualification as Full Professor (Abilitazione Scientifica Nazionale in Prima Fascia) - 29/11/2017
ERC-Starting/Consolidator Grant for the project *FIRST: the first stars and galaxies* (2012-2017)
Beatrice M. Tinsley Research Scholarship, University of Texas, Austin (2010)
2004 ISI Special Topic Site Interview for the third most cited paper on black holes (<http://www.esi-topics.com/blackholes/interviews/RaffaellaSchneider.html>);
2003 Senior Excellence Grant, "Enrico Fermi" center (<http://www.centrofermi.it/>)

Scientific production:

128 scientific papers, among which **92** on Refereed international journals (**2** on **Nature**, **1** on Phys. Rev. Lett.) 4842 citations, 1144 normalized citations, H-index of 35, normalized H-index of 20 (source: NASA/ADS: http://adsabs.harvard.edu/abstract_service.html as of 26/02/2019)

Institute colloquia and participation to Conferences:

From 2000-2019: **35** invited seminars and colloquia in Italian, European and US Institutions, more than **70** seminars at international conferences and workshops, among which **45 invited** and **8 review talks**. Teaching duties have made travelling challenging in the past 2 years and I had to decline 5 invited talks.

Supervision of master, graduate students and postdoctoral fellows

Postdoctoral fellows:

Edwige Pezzulli, Osservatorio Astronomico di Roma (2017-2018)

Luca Graziani, Osservatorio Astronomico di Roma (2013-2016)

Stefania Marassi, Osservatorio Astronomico di Roma (2013-2016)

Rosa Valiante, Osservatorio Astronomico di Roma (2011-2015)

Antonella Maselli, Osservatorio Astrofisico di Arcetri (2008-2010)

PhD students

Federica Sassano (2018-), Astronomy Astrophysics and Space Science, Sapienza Università di Roma and Università di Tor Vergata

Michele Ginolfi (2016-2018), Astronomy Astrophysics and Space Science, Sapienza Università di Roma and Università di Tor Vergata

Edwige Pezzulli (2015-2017), Astronomy Astrophysics and Space Science, Sapienza Università di Roma and Università di Tor Vergata

Mattia Mancini (2015-2017), Astronomy Astrophysics and Space Science, Sapienza Università di Roma and Università di Tor Vergata

Matteo de Bennassuti (2013-2015), Astronomy Astrophysics and Space Science, Sapienza Università di Roma and Università di Tor Vergata

Rosa Valiante (2008-2010), Astronomy and Astrophysics of the Università degli studi di Firenze

11 Master and 8 Bachelor students at Sapienza Università di Roma

Teaching activities

Holder of the chair of Stellar Astrophysics for the master degree in Astronomy and Astrophysics of the Department of Physics, Sapienza Università di Roma (since 2017)

Holder of the chair of General Physics for the Department of Biology, Sapienza Università di Roma (since 2018)

Lecturer for the Universe Awareness conference, Lake Ohrid (2016)

Lecturer of the Cosmology course of the Astronomy Department, University of Florence, chair of the course Prof. F. Pacini (2007-2009)

Lecturer of the course The Universe after Recombination at the Scuola Normale Superiore, chair of the course, Prof. A. Ferrara (2010)

Lecturer for the PhD program in Astrophysics, Scuola Normale Superiore, Sapienza Università di Roma, Università di Roma 3, Milano, Padova, and the International School of Advanced Studies - SISSA

Organization of scientific meetings

Since 2007 I have served on the Scientific Organizing Committee of 13 International Conference. Moreover, I have co-chaired the organization of the following events:

"The early growth of the first super-massive black holes", Sexten Center for Astrophysics (07/2018)

"The Cold Universe", 3 months program funded and hosted by the Kavli Institute for Theoretical Physics (KITP) of Santa Barbara (15/04/2016 – 15/07/2016)

"The formation of the first supermassive black holes", Special Symposium- EWASS 2015 (06/2015)

"Low-metallicity star formation: from the first stars to dwarf galaxies", IAU 255 Symposium, Rapallo (2008)

"HI Survival through Cosmic Times", Abbazia di Spineto (06/2007)

Institutional responsibilities

Member of the steering committee of the Amaldi Research Center (since 2018)
Co-coordinator of the Excellence Curricula of the Physics Department, Sapienza University of Rome (since 2017)
Member of the board of the PhD school in Astronomy Astrophysics and Space Science, Sapienza Università di Roma e Università di Tor Vergata (since 2017)
Member of several committees for the selection of postdoctoral fellows at INAF (2008-2017) and Sapienza Università di Roma (since 2017)
Co-organizer of the general colloquia at INAF-OAR (2010-2014) and Sapienza Università di Roma (since 2018)

Commissions of trust

Expert reviewer for the European Research Council, Italian Ministry for Education, University and Research (MIUR), Israel Science Foundation, Comisión Nacional de Investigación (Chile), Cottrell College Science Awards (USA)

Commission for the final PhD defence at the:

Department of Physics, University of Trieste (2017, 2018), Department of Physics, University of Rome 3 (2017), Institut d'Astrophysique de Paris (15/09/2016)

Referee of PhD thesis:

Lorenzo Gioannini, Università degli Studi di Trieste (2018)
Chiara Mongardi, Università degli Studi di Trieste (2017)
Adriana Postiglione, Università di Roma 3 (2017)
Federica Ricci, Università di Roma 3 (2017)
Melanie Habouzit, l'Institut d'Astrophysique de Paris (2016)
David Goz, Università degli Studi di Trieste (2015)

Peer reviewer for Monthly Notices of the Royal Astronomical Society, The Astrophysical Journal, Astronomy & Astrophysics, Classical and Quantum Gravity, Reports on Progress in Physics, Reviews of Modern Physics (since 2000).

Collaborations

Member of the Astrophysics working group for LISA (since 2018)
COST ACTION Gravitational waves, black holes and fundamental physics (since 2018)
Gravitational Wave International Committee 3G Science Case Team (since 2017)
Euclid consortium (since 2017)
Galaxy Evolution Team of SPICA (since 2016)
Epoch of Reionization Science Team dello Square Kilometer Array (SKA) (since 2014)
Astrophysical Software Laboratory Committee appointed by ASTRONET Board (2010);
ESA Science Advisory Group per LISA (2001-2003);
International Space Science Institute (ISSI) teams:
"EUROPA - Early Universe: Research On Plasma Astrochemistry" (2013-2015)
<http://www.issibern.ch/teams/europa/EUROPA.html>
"Molecules and dust at low metallicity" (2009-2011)
<http://www.issibern.ch/teams/modulo/>
Italy-Japan bilateral collaboration funded by the National Research Council (2002-2003)
European Research and Training Network "The Physics of the Intergalactic Medium" (2000-2004)

Memberships

INFN associate (since 2017)
INAF research assignment free of charge (since 2017)
EAS European Astronomical Society

IAU International Astronomical Union
SIGRAV Italian Society of General Relativity and Gravitational Physics

Direction of research programs

PhD thesis INAF 2015

Role: Supervisor of the project

Title of the project: *The gas and dust content of high-redshift galaxies*

Duration of the project: 2015 – 2017

European Research Council Starting Grant 2012

Role: Principal Investigator

Title of the project: *The First Stars and Galaxies*

Number of the project: 306476

Duration of the project: 1/10/2012 - 30/09/2017

PRIN-INAFA 2010

Role: Coordinator of the Local Research Unit

Title of the project: *THE 1 BILLION YEAR OLD UNIVERSE: Probing Primordial Galaxies and the Intergalactic Medium at the Edge of Reionization*

Duration of the project: 2010 – 2012

PRIN-INAFA 2009

Role: National Coordinator after the resignation of R. Maiolino

Title of the project: *New light on the early Universe with sub-mm spectroscopy*

Duration of the Project: 2009 – 2011

PhD thesis INAF 2009

Role: Supervisor of the project

Title of the project: *The origin of high-z dust*

Duration of the project: 2009 - 2011

Partecipation to observational and computing programs:

ALMA Cycle 5 (2017) and 3 (2015) proposals, ESO SINFONI (2010), VLT and TNG (2005) programs; PRACE Preparatory Access – 16th cut-off evaluation grant (2014), 2 IS CRA/CINECA projects (2014-2015)