

Andrea De Luca – curriculum vitae et studiorum (2014, July)

Current position: Staff researcher, INAF/IASF Milano (since 15/06/2011)

Professional experience

- 28/12/2008-14/06/2011: assistant professor, IUSS Pavia (fixed-term position)
- 01/01/2008-28/12/2008: researcher, INAF/IASF Milano (fixed-term position)
- 01/01/2004-31/12/2008: research fellow, INAF/IASF Milano, Swift/BAT data analysis
- 01/10/2000-31/12/2003: research fellow, INAF/IASF Milano, XMM/EPIC data analysis

Education

- 12/01/2004: Ph.D. in Astrophysics and Astronomy, University of Milano Bicocca
- 12/07/1999: Degree in Physics, University of Pavia
- 1994-1999: Alumn at Collegio Ghislieri in Pavia

Scientific activity

- Main interests:
 - physics and phenomenology of isolated neutron stars and pulsar wind nebulae
 - nature of unidentified gamma-ray sources
 - cosmic X-ray background
 - gamma-ray bursts
- PI of more than 25 observing programs based on space observatories (XMM-Newton, Chandra, Swift, Hubble Space Telescope) as well as on ground-based telescopes (ESO/VLT)
- author or co-author of more than 100 papers on refereed international journals, totaling more than 5200 citations (2014, July, NASA/ADS system)

Participation to high energy astrophysics missions and experiments:

- Primary coordinator of the EXTraS project, funded by the EU within the FP7-Space framework, started in 2014 with an expected duration of 3 yr. The EXTraS collaboration features about 35 scientists in 6 European institutions and will carry out the most complete and sensitive study of variable phenomena in the X-ray sky (see www.extras-fp7.eu).
- since 2011: member of the ASTRI collaboration (MIUR “flagship” project lead by INAF aimed at designing and realizing a small-size Cherenkov telescopes compliant with the requirements of the future Cherenkov Telescope Array)
- since 2008: member of the Fermi-LAT collaboration. Activities: analysis and interpretation of data on galactic sources; multiwavelength observations galactic gamma-ray sources; multiwavelength observations of unidentified gamma-ray sources
- since 2004: institutional associate scientist of the Swift collaboration (former responsibilities: follow-up observations of GRBs with XMM-Newton; development of data analysis procedures for Swift/BAT survey data)
- 2001-2004: member of the XMM-Newton/EPIC calibration team (activities: study of the instrumental background; characterization of the vignetting; spectral cross-calibration of pn and MOS instruments)

Didactic Activity

- since 2007: Lecturer for the Course of Astronomy (Astronomia, 48 hr, 6 CFU), University of Pavia
- 2009: lecturer for the course "Scienza dello spazio" (24 hr) for the Science and thecnology class at the Istituto Universitario di Studi superiori di Pavia
- 2007: lecturer for the course "Mezzo secolo di spazio" (24 hr) for the Science and thecnology class at the Istituto Universitario di Studi superiori, Pavia
- advisor or co-advisor for 17 degree thesis and for 5 Ph.D. thesis, on different topics of high energy astrophysics

Activity as a scientific referee

- member of the time allocation committee for the XMM-Newton and Chandra missions (panel: isolated neutron stars; supernova remnants; diffuse emission; gamma-ray bursts)
- referee for The Astrophysical Journal, The Astronomical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society

Awards and prizes

winner of "Medaglia Presidente della Repubblica, premio Le Scienze 2008" as best young italian researcher of the year in astrophysics, Roma, december 2008.