

CURRICULUM VITAE

Annalisa Bonafede

Personal Data:

Born: Parma (PR) February, 15th 1983

Nationality: Italian

Present Position:

Post-Doc at the Bologna University, Astronomy department (end April 2010) & Istituto di Radio Astronomia (IRA - INAF) Bologna;

Member of the LOFAR survey key-project team.

Present Address: Istituto di Radioastronomia, via P. Gobetti 101, 40129 Bologna, Italy.

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Languages:

Mother language: Italian

English: C1 - good (self-valuation according to Language Skills Self-Assessment Grid of European Language Portfolio)

Education:

- 2001 : Diploma at Liceo Scientifico Statale A. Righi (Bologna) (100/100 cum laude).
- 2004: Bachelor degree in Astronomy at the University of Bologna (110/110 cum laude), supervisor Prof. Carla Giovannini-Fanti
- 2006: Master degree in Cosmology and Astrophysics at the University of Bologna (110/110 cum laude), supervisor Prof. Daniele Dallacasa and Dr. T. Venturi; Master Thesis: "Searching for Giant radio halos in galaxy clusters at intermediate redshift ($z=0.2 - 0.4$)"
- 2006: Fellowship from the Astronomy department in Bologna, supervisor Prof. G. Giovannini (2 years).
- 2010 Doctorate in Astronomy at the University of Bologna supervisors: Dr. L. Feretti and Prof. G. Giovannini. Thesis: "Magnetic field in galaxy clusters: Faraday Rotation and Non-thermal emission".

Fellowships, Awards & Grants

Oct 2007 and Sept 2009: visiting PhD student at Observatory of Cagliari (Italy)

September-December 2008: visiting PhD student at Max Planck Institute for Astrophysics, Garching (Germany)

Observing Proposals:

Assigned Observational time at the VLA Very Large Array (Socorro, New Mexico, USA)

2007: 2 projects approved for a total of 44h

2008: 4 projects approved for a total of 43h

2009: 3 projects approved for a total of 76h

Computing Proposals:

Assigned computation time at CINECA Supercomputing Center (Bologna)

2008 : 50 000 allotted CPU hours on BCX

2009: 90 000 allotted CPU hours on BCX/SP6

Computing Skills:

Expert in AIPS (Astronomical Image Processing Systems)

Good knowledge IDL

Basic knowledge C++

PUBLICATIONS:

“The Coma cluster magnetic field from Faraday rotation measures”; Bonafede A., Feretti L., Murgia M., Govoni F., Giovannini G., Dallacasa D., Dolag K., Taylor G. B., 2010, 2010, A&A, 513, 30

“Revealing the magnetic field in a distant galaxy cluster: discovery of the complex radio emission from MACS J0717.5 +3745”; Bonafede A., et al., 2009, A&A, 503, 707

“Double relics in Abell 2345 and Abell 1240. Spectral index and polarization analysis”; Bonafede A., Giovannini G., Feretti L., Govoni F., Murgia M., 2009, A&A, 494, 429

“The diffuse radio filament in the merging system ZwCl 2341.1+0000”; Giovannini G., Bonafede A., Feretti L., Govoni F., Murgia M., 2010, A&A, 511, L5

“The intracluster magnetic field power spectrum in Abell 665”; Vacca V., Murgia M., Govoni F., Feretti L., Giovannini G., Orrú E., Bonafede A., 2010, A&A, 514, 71.

“Radio haloes from simulations and hadronic models - I. The Coma cluster”; Donnert J., Dolag K., Brunetti G., Cassano R., Bonafede A., 2009, MNRAS, 1630

“Radio halos in nearby ($z < 0.4$) clusters of galaxies”; Giovannini G., Bonafede A., Feretti L., Govoni F., Murgia M., Ferrari F., Monti G., 2009, A&A, 507, 1257

“Extended X-Ray Emission in Radio Galaxies: The Peculiar Case of 3C 305”; Massaro F., et al., 2009, ApJ, 692, L123

CONFERENCE PROCEEDINGS

“Cosmic rays in magnetized intracluster plasma”; Feretti L., Bonafede A., Giovannini G., Govoni F., Murgia M., 2009, arXiv, arXiv:0910.1519

“The Coma cluster magnetic field from Faraday rotation measures” Bonafede A., Feretti L., Govoni F., Murgia M., Giovannini G., Dolag K., Taylor G. B., 2009, RMxAC, 36, 303