

Michele Sasdelli - Curriculum Vitae

CONTACT INFORMATION

Citizenship: Italian

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RESEARCH INTERESTS

Astrophysics, transients, supernovae, type Ia supernova, spectroscopy, radiative transfer, numerical simulations, statistical methods (e.g. Principal Component Analysis), machine learning.

EDUCATION

Max Planck Institute for Astrophysics, Garching, Germany. **2011 - 2015**

Ph.D., Physics - June, 2015 (expected).

- Dissertation: “A Metric Space for Series of Spectra of Type Ia Supernovae”.
- Advisor: Prof. Wolfgang Hillebrandt.

Scuola Normale Superiore, Pisa, Italy. **2006 - 2011**

Diploma di Licenza - 2012.

Diploma di I livello - 2009.

Università di Pisa, Pisa, Italy. **2006 - 2011**

M.Sc., Physics - October, 2011.

- Master’s thesis: “A characterization of overluminous type Ia supernovae using radiation transport models”.
- Advisor: Prof. Paolo Mazzali.

B.A., Physics - July, 2009.

- Bachelor’s thesis: “Reconstruction and identification of Tau lepton at LHC”.
- Advisor: Prof. Luigi Rolandi.

EXPERIENCES

Operate observations in the Nearby Supernova Factory collaboration **2012 - 2014**

Technische Universität München, Munich, Germany. **2011 - 2015**

Student’s lab instructor (Instructed students in a technical laboratory. Responsibility for exams and grades.)

ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

- Type Ia Supernovae conference, KPTC, Chicago, Illinois, USA - Sept 18, 2014 - Talk.
- “The Unquiet Universe”, Cefalù, Italy - June 10, 2014 - Talk.
- Nearby Supernova Factory Meeting, LBNL, Berkeley, California, USA - May 19, 2014 - Talk.
- “Observational signatures of type Ia supernova progenitors II Workshop”, Lorentz Center, Leiden, NL - September 20-24, 2013 - Talk.
- Nearby Supernova Factory Meeting, Tsinghua University, Beijing, China - March 25, 2013 - Talk.
- “Supernovae Illuminating the Universe: from Individuals to Populations Conference”, Garching, Germany - Sept 9-14, 2012 - Poster.

- RECENT SEMINARS AND COLLOQUIA
- Institute Seminar, Max Planck Institute for Physics, Garching, Germany - June 16, 2014.
- LANGUAGES
- Italian (native speaker).
 - English (proficient).
- COMPUTER SKILLS
- Languages: PYTHON, R, FORTRAN, IRAF, C.
 - Operating Systems: Unix/Linux, Windows.
- PUBLICATIONS
- Sasdelli, M., Hillebrandt, W., et al. "A metric space for type Ia supernova spectra", 2015, Monthly Notices of the Royal Astronomical Society, 447, 1247.
 - Sasdelli, M., Mazzali, P. A., et al. "Abundance stratification in Type Ia Supernovae - IV: the luminous, peculiar SN 1991T", 2014, Monthly Notices of the Royal Astronomical Society, 445, 711.
 - 42 Astron. Telegrams