

Martino Trassinelli

Curriculum Vitæ

Institut des NanoSciences de Paris
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Personal details

Bird date 18th September
Nationality Italian
Current position Researcher at the Centre National de la Recherche Scientifique (CNRS, France) in the group “Clusters and Surfaces under Intense Excitation” at the Institut des NanoSciences de Paris

Professional experiences (research)

Scientific interests

- Dynamics of highly charged ion interaction with atoms (fast and slow ion velocity), with surfaces and with clusters (slow ion velocity).
- Structure of exotic atoms (pionic atoms, highly charged ions, . . .): study of quantum electrodynamics, strong and weak interactions.
- Modifications of structural and magnetic properties of thin films irradiated with ions.
- Bayesian statistics and applications to data analysis.

2006–2007 **Post-doctorat**, Accurate measurement of inter-shell transitions and Balmer lines in heliumlike uranium, Gesellschaft für Schwerionenforschung, Darmstadt, Germany.

Teaching experience

- 2016 **Lecture on *X-ray spectroscopy* in the course of Atomic Collision, Research Master Light, Matter and Interactions**, University Pierre et Marie Curie- Paris 6, Paris, France.
- 2006 **Lecture on in *Exotic atoms* in the course Structure and Dynamics of Ions and Atoms, Research Master of Physics**, Goethe University Frankfurt, Germany.
- 2005 **Physics tutoring in Thermodynamics**, University Pierre et Marie Curie- Paris 6, Paris, France, 2nd year undergraduate class.
- 2003 **Physics tutoring in Mechanics and Fluid-dynamics**, University Pierre et Marie Curie- Paris 6, Paris, France, 1st year undergraduate class.

Awards and fellowships

- 2013 **CNRS Scientific Excellence award**.
- 2007 **Non-recurring financing of the Helmholtz Association for the promotion of young researchers as a leader of the research project**.
- 2006–2007 **Winner of the Humboldt Research Fellowships**.
- 1999–2003 **Élève fonctionnaire stagiaire, École Normale Supérieure de Paris**.

Ph.D. thesis (Università Pierre et Marie Curie – Paris 6)

Title *Quantum Electrodyn. Tests and X-rays Standards using Pionic Atoms and Highly Charged Ions*
Director Paul Indelicato (Laboratoire Kastler Brossel, Paris, France)
Defence December 2005

Formation

2001–2002 **2nd year of Master's degree in Particle and Nuclear Physics (DEA Champs, Particules et Matières)**, *University Pierre et Marie Curie and E.N.S.*, Paris, France.
2000–2001 **1st year of Master's degree in Physics (Maîtrise de Physique)**, *University Pierre et Marie Curie and E.N.S.*, Paris, France.
1999–2000 **Licence de Physique**, *University Pierre et Marie Curie and E.N.S.*, Paris, France.
1999–2002 **Magistère Inter-universitaire de Physique**, *University Pierre et Marie Curie and E.N.S.*, Paris, France.
1997–1999 **Bachelor's degree in Physics (first two years)**, *Univrsity of Florence*, Italy.

Current collaboration

2011 – pres. Member of the collaboration *FISIC (Fast Ion – Slow Ion Collisions)* part of the EQUIPEX S3 (founding of the Agence Nationale de la Recherche (France))
2005 – pres. Member of the collaboration *SPARC (Stored Particles Atomic Research Collaboration)* for atomic physics at *FAIR (Facility for antiproton and ion research)*, Darmstadt, Germany
2005 – pres. Member of the European Physical Society

Participation to research projects

2013 – pres. International ANR Fit-FISIC (ANR/DFG, PI: E. Lamour)
2013 – 2015 Leader of the ENSAR-GSI project *Measurement of the bound-state beta decay of bare ²⁰⁵Tl ions*
2006–2010 ANR-06-BLAN-0223

Other positions in the administration of research

2013 – pres. Member of the international board (for France) of the *SPARC* collaboration
2013 – pres. Elected member of the laboratory council of the Institut des NanoSciences de Paris
2011 – pres. Coordinator of the group *Photon and X-Ray Spectrometers* of the *SPARC* collaboration

Programming languages, operating systems

Systems **Unix, Linux, Mac OS X, Windows**
Languages **Fortran 77 et 90, C, Python**
Programs **L^AT_EX, Mathematica, LabView, Gnuplot, Office package, ...**

Foreign languages

Italian **Mother tongue**
French **foreign languages**
English **Fluent**