



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Laboratory of Ion Beam Physics

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Job advertisement:

Post-Doc Position – Astrophysics with Ion Beams

The Laboratory of Ion Beam Physics (LIP) at ETH Zurich operates several accelerators for Accelerator Mass Spectrometry (AMS) and Ion Beam Analysis and plays a leading role in these research areas.

Within the EuroGENESIS collaborative research program “Cosmic Dust as a Diagnostic for Massive Stars” a **Post-Doc position** is available for astrophysical research at LIP. In particular, the successful candidate is expected to work in the direction of isotope analysis of presolar grains using the SIMS ion source at the 6 MV Tandem accelerator and the detection of supernova produced nuclides (e.g. ^{60}Fe , ^{182}Hf , ^{244}Pu) in terrestrial archives using the AMS systems at LIP and Munich. These measurements will complement interferometric observations of dust in supernova remnants and theoretical modeling of stellar evolution, nucleosynthesis and related dust production. To achieve this, close collaborations within the EuroGENESIS program with research groups in Basel, Onsala, Vienna, Mainz and Rome are foreseen.

Applicants should have a Ph.D. in physics or a related field. Experiences with mass spectrometers or accelerator systems including ion sources (e.g. SIMS ion source), radiochemistry and/or nuclear astrophysics will be considered to be an asset. The preferred starting date is first half of 2010 and the position is available for up to three years. For additional information please contact Dr. Christof Vockenhuber (vockenhuber@phys.ethz.ch or +41 44 633 38 85).

Applications including a full CV with a list of publications and three references should be sent in electronic form to Frau Leonore Noll (noll@phys.ethz.ch), secretary of the Laboratory of Ion Beam Physics at ETH Zurich, Schafmattstrasse 20, CH-8093 Zurich, by **March 15th, 2010**.