

Dr. Yves Revaz and Dr. Pascale Jablonka (Ecole Polytechnique Fédérale, EPFL) in collaboration with Profs. Anne Verhamme and Daniel Schaerer (University of Geneva), announce the availability of a PhD position, open to applicants of all nationalities.

The successful candidate will work on the development of a radiative transfer implementation for the task-based cosmological code SWIFT (<http://icc.dur.ac.uk/swift/>). The ultimate goal is to run high resolution simulations of dwarf galaxies during the Epoch of Reionization (EoR), understand their properties and evaluate their impact during this period. Combined with state-of-the-art observations diagnostics of the ionizing photons leakage, this project will provide decisive predictions for the future surveys designed to probe the EoR.

The candidate will benefit from the supervision of experts in chemo-dynamical modeling of galaxies, as well as experts in ionizing radiation, both from a numerical and observational viewpoints.

The Laboratory of Astrophysics of EPFL and the associated Astronomy Department of the University of Geneva carry out observational and theoretical research in the fields of galaxy formation and evolution, observational cosmology, extra-solar planets, stellar physics, and high energy astrophysics.

More information can be gathered at the following links: <http://lastro.epfl.ch>
<http://www.unige.ch/sciences/astro/reionization/en/> <http://obswww.unige.ch/sfr>

Qualified candidates with a strong background in computational science are encouraged to apply. Experience in astrophysics will be appreciated but is not mandatory. The applications should be sent at lastro@epfl.ch, should include a letter of motivation, a CV, a summary of research experience, and two letters of recommendation, via email to the above address.

The appointment will be for four years starting in the fall 2018 or as soon as possible. The position comes with competitive salary and includes benefits: Standard Swiss Social Security, Accident Insurance and Pension contributions.

Attn Dr. Yves Revaz LASTRO Observatoire de Sauverny 51, Ch. des Maillettes CH-1290 Versoix
Switzerland

E-mail: lastro@epfl.ch