

Open Position @ LUX
Post-doctoral Positions at LUX, Observatoire de Paris

Organization: LUX, Observatoire de Paris
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The LUX/Observatoire de Paris is seeking candidates for a 2+1 year post-doctoral position in photo-ionisation and shock modelling of Cool Core Galaxy Clusters, starting at the earliest in spring 2026 (later is possible).

The successful candidate will carry out research within the ANR project VIEWS (Voyage into the Engine with the Webb teleScope).

The project aims to explore the interplay between Black-Hole feeding and AGN-feedback (star formation regulation by Active Galactic Nuclei) mechanisms in the core of massive galaxies. VIEWS leverages the capabilities of the James Webb Space Telescope (JWST) cycle 3 project GO5018 to provide high-resolution imaging and spectroscopy of six selected Brightest Cluster Galaxies.

During the course of this position, it is expected that JWST data reduction and analysis in a multi-wavelengths context will be carried out. The goal will be to get a full picture of warm molecular and ionised gas and of the dust in BCGs from the JWST data. The main tasks will focus on data reduction and analysis to produce science-ready data products, gathering complementary data (see below) and work at the interface with postdocs at IAP and LPENS for the interpretation (comparison with models and simulations).

Applicants should have at least a PhD in physics, astronomy or related subject by the time of the appointment. We encourage applications from candidates with a strong expertise data reduction and analysis with JWST or other instruments. The manipulation of state-of-the-art models of photo-ionisation and shock (e.g. Meudon-PDR, CLOUDY, MAPPINGS) is an asset but not mandatory. Experience with manipulating multi-wavelength data will also be considered. Knowledge of extragalactic astrophysics is preferred. Skills in one or several programming languages (e.g. Python, Fortran, C++) are necessary.

The LUX/Observatoire de Paris maintains a lively visitor program and hosts regular workshops and conferences throughout the year. The successful candidate will be immersed in an internationally visible research environment in the Paris Campus, with rich intellectual and computational resources.

The appointment is for 2+1 years with a salary including French social security benefits. Funding will also be allocated for travel.

Applicants should submit a CV (max. 2 pages), a publication list, a short review of previous works (2 pages) and a statement of research interests (2 pages). Applications should be sent via email to philippe.salome@obspm.fr.

For full consideration materials must be received before February 16th, 2026.

Included Benefits: French national medical insurance, Maternity/Paternity leave, Lunch subsidies, Family supplement for children, Participation to public transport fees, Pension contribution.