

Université Claude Bernard Lyon 1- Hosting offer for a MSCA Post-doctoral fellowship candidate in Theoretical Particle Physics

Host Organisation	Université Claude Bernard Lyon 1
Department	Physics
Laboratory	IP2I
Website (lab / research team)	https://www.ip2i.in2p3.fr/equipes/theorie/
Supervisor Contact name	Prof. Aldo Deandrea
Supervisor Contact email	deandrea@ip2i.in2p3.fr

Host Organisation

The Université Claude Bernard Lyon 1 welcomes Marie Skłodowska Curie Postdoctoral Fellowships applications !

With 62 laboratories and more than 7000 publications per year, and leading French university in terms of the number of patents filed in collaboration with industry, Lyon 1 contributes to scientific and innovation progress in numerous fields: health, mathematics, IT, physics, chemistry, earth and space sciences, life sciences, etc. Creator of emerging knowledge and new technologies, the University is consolidating its research excellence on a global and international level by developing inter- and multidisciplinary approaches targeting the major challenges facing today society.

Host research lab/team

The IP2I Institute is a leading research lab in Europe in most areas of subatomic physics, including particle physics, neutrinos, nuclear structure and quark-gluon plasma. The institute also has strong expertise in astro-particles and cosmology, with research into dark matter, dark energy and gravitational waves. It also conducts interdisciplinary research into the environment, health and nuclear energy.

The research activities conducted within the “[Theory of 2 Infinities](#)” hub at IP2I Lyon encompass a broad spectrum of subjects, ranging from the infinitely small to the infinitely large. These activities include the investigation of the properties of the fundamental constituents of matter, as well as inquiries into the large-scale structures of the universe. The primary objective is to develop theoretical models that elucidate experimental results or generate testable theoretical predictions.

Hosting Offer

The IP2I **Theory team** offers to host a MSCA Postdoctoral Fellowship candidate (typically a post-doc of less than 8 years research experience since PhD defence), submitting an application to the next MSCA-2026-PF call for proposals (deadline 09th of September 2026), interested to work on the following research topic:

- Model building and phenomenology beyond the standard model of particle physics, in particular with extra dimensions.
- Unification of fundamental forces, renormalization group evolution and fixed points in high energy models.
- Applications to early universe physics (baryogenesis, gravitational waves)

The fellowship could last for 12 to 36 months, depending on the type of Postdoctoral Fellowship.

Supervision

The successful Marie-Curie Post-doctoral fellow will be supervised by Prof. Aldo Deandrea. His research interests include model building, unification, collider physics and electroweak symmetry breaking, as well early universe applications of particle physics.

See also: [Inspire HEP link](#)

Application process

Interested candidates are invited to contact us exclusively by email at the address: deandrea@ip2i.in2p3.fr

Make sure that you include the reference to this offer in the title of your email. Please attach a CV, a motivation letter, your MSc marks, **as well as a 1 page research proposal.**

Professional grant application support:

Candidates will receive the support of the supervisors, as well as online training from a professional grant application company, and advices from successful applicants, to prepare and submit their application with the IP2I as a host laboratory, to the next MSCA-PF call for proposals.