

Faculty Position Announcement
Tenure-Track in Theoretical, Experimental Particle Physics and Accelerator Science
Institute for Research in Fundamental Sciences (IPM)
School of Particles and Accelerators (SPA)

The School of Particles and Accelerators (SPA) at the Institute for Research in Fundamental Sciences (IPM) invites applications for tenure-track faculty positions in the following research areas:

Particle Physics Phenomenology

We seek applicants with a proven research track in one or more of the following:

- Standard Model Effective Field Theory (SMEFT).
- Collider Phenomenology.
- Heavy Quark Physics.
- Physics Beyond the Standard Model (BSM).
- Heavy Ion Physics and Quark-Gluon Plasma (QGP).

Experimental High-Energy Physics

We welcome candidates with expertise in:

- High energy experimental data analysis and application of Machine Learning and AI in data analysis and detector design.
- Detector physics, with emphasis on Forward Physics Detectors and Resistive Plate Chambers (RPCs).
- Physics studies and detector simulation for the future colliders.
- Heavy ion collisions and QGP signatures in high-energy experiments.

Accelerator Physics and Technology

We also invite applications from candidates with expertise in:

- Accelerator physics and beam dynamics.
- Vacuum systems and accelerator technologies.
- Design, commissioning, and operation of particle accelerators and light sources.
- Synchrotron radiation facilities, with particular interest in contributions to the Iranian Light Source Facility.
- Participation in large-scale international accelerator projects and collaborations.

Successful candidates are expected to:

- Lead independent and collaborative research in cutting-edge topics.
- Supervise graduate students.
- Contribute to academic development and research projects of the school, including national initiatives such as ILSF and international collaborations.

Application Requirements

- Cover letter.
- Curriculum Vitae with a full list of publications.
- Research statement.
- Five letters of recommendation.

Applications should be submitted to: **particles@ipm.ir**

Deadline: Open until filled.