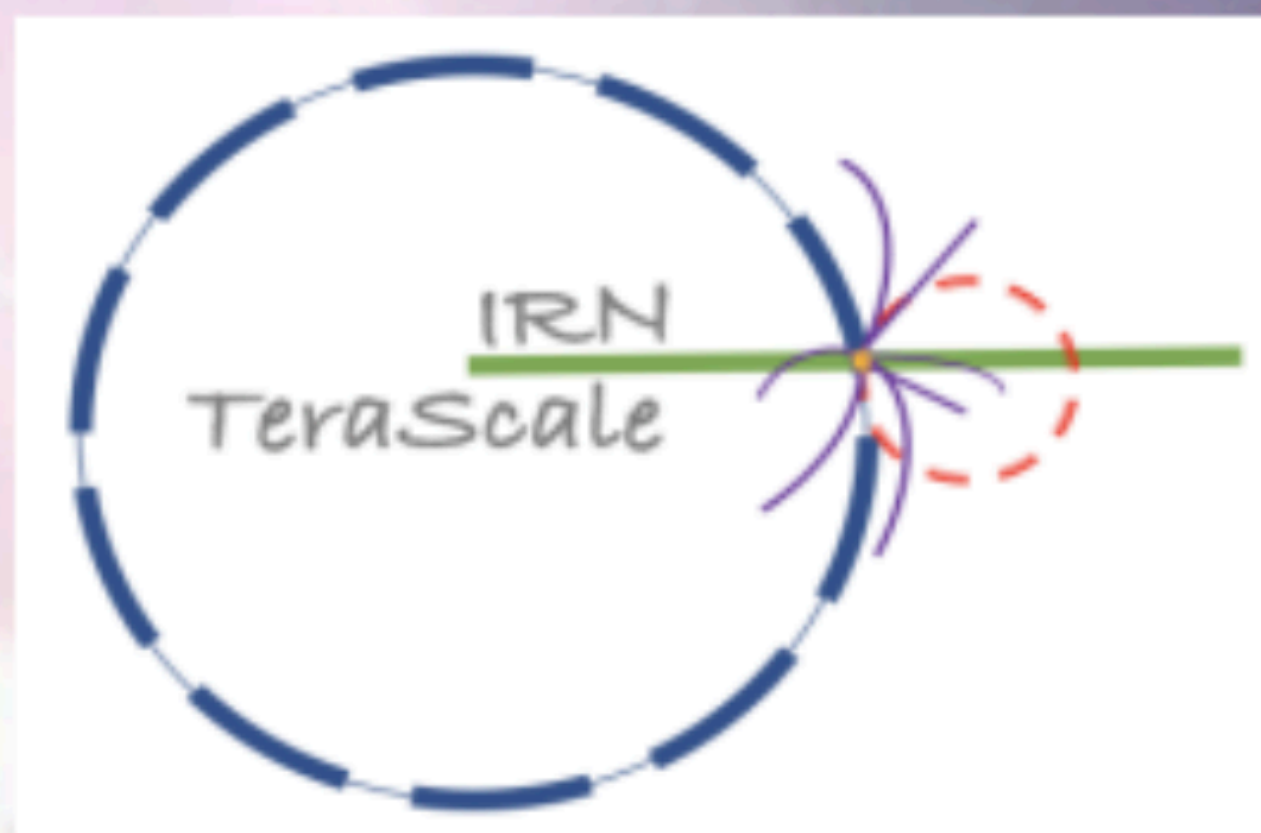




**PÔLE MATHÉMATIQUES,  
INFORMATIQUE,  
PHYSIQUE, SYSTÈMES**  
UNIVERSITÉ DE MONTPELLIER



IRN Terascale  
Montpellier  
24-26 Nov 2025





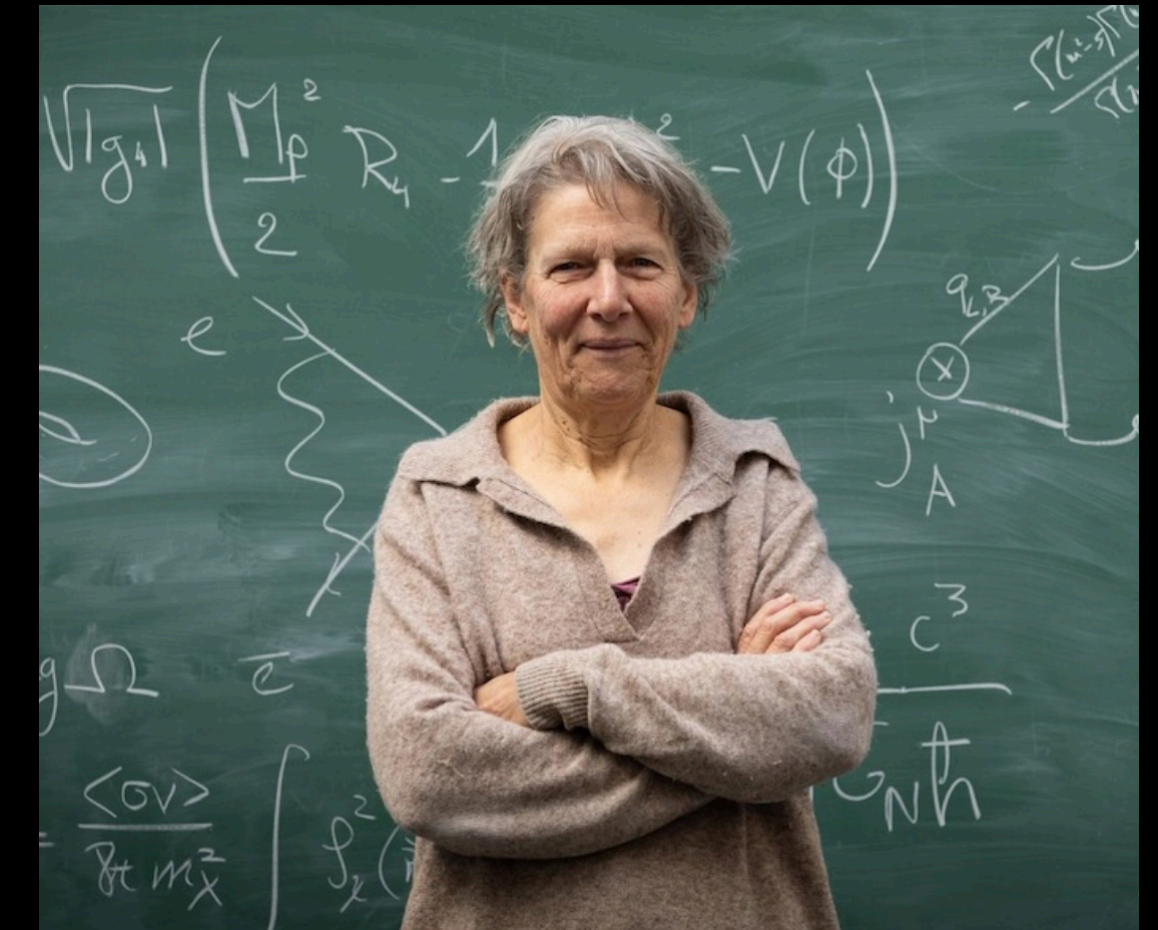
# The workshop this week

- The workshop this week:
  - Usual 4 sessions (Methods and Tools, Higgs and Electroweak, Beyond the Standard Model, Dark Universe)
  - The BSM group has seen a change of convener since the last workshop, with Margarete Mühlleitner replacing Jérémie Quevillon - thanks!)
- We also feature our first Early Career Scientist award for the best talk (PhD and early postdocs)!
  - Pay attention, your vote will be requested at the end of the workshop, combined with a vote from our special jury (many thanks to Sara Diglio, Gilbert Moulta, Carlo Pandini, and Andrea Shindler!)
- If you are new to the Terascale, please subscribe to our mailing list to stay informed:
  - <https://listserv.in2p3.fr/cgi-bin/wa?SUBED1=TERASCALE-L&A=1>
  - (Link also on the webpage: <http://terascale.in2p3.fr/>)

# News from around the Terascale

- **Events in France:**

- January 26th @ LAPTh :
  - **Geneviève Fest**
  - On the occasion of her retirement, a workshop to celebrate Geneviève Bélanger's contributions
  - Register now! <https://indico.in2p3.fr/event/37768/>
- March 11-13 @ Montpellier:
  - **Rencontres de Physique des Particules (RPP) 2026**
  - Mark the dates! <https://btp2.in2p3.fr/rpp/>



- **Searching for good candidates:**

- For an internship + funded thesis in Grenoble ( contact: Pierre-Antoine Delsart - [delsart@lpsc.in2p3.fr](mailto:delsart@lpsc.in2p3.fr) )
  - Novel approaches to BSM searches using ML-based anomaly detection techniques.
  - The student will investigate ML-based anomaly detection methods to identify beyond SM signals. In a first phase the method will be focused on identifying anomaly in hadronic jets in the context of Dark Sector scenario. Generalization of the methods will then be studied to broader models and event signature. The student will also perform experimental work related to the optimization of the reconstruction of hadronic jet in the ATLAS detector.

## Postdoc positions @ LNF

- **2-year postdoc** position on **collider theory/phenomenology** starting in September/October 2026, under the supervision of E. Bagnaschi (formal opening in January). Announcement and procedure to submit an expression of interest: <https://inspirehep.net/jobs/3082426>
- **2-year postdoc** position on **collider theory/phenomenology** starting in September/October 2026, under the supervision of G. Corcella. Announcement and procedure to submit the application at: <https://inspirehep.net/jobs/3084635>

## LNF Spring School '26

- The XXII LNF Spring School “Bruno Touschek” will take place at LNF on May 11th-15th 2026
- Open to PhD students and young postdocs both in theory and experiment
- Preliminary list of topics (TH+EXP lectures): Gravitational Waves, Dark Sectors at Collider, Evolving Structure of nucleon
- Web site (still to be published): <https://www.lnf.infn.it/conference/lnfss/26/>

## LNF @ GGI Workshop

- “Higgs @ GGI” – a **theory+experiment** (real!) workshop on Higgs physics at GGI, strategically positioned just after the update of the strategy by the CERN council (expected to be in May 2026)
- **Four weeks** (28/09/2026 to 23/10/2026):
  - first week, three days of school on Higgs physics + conference (two days);
  - second week on BSM Higgs physics;
  - third week on Higgs @ future colliders/ESSPU;
  - fourth week on the characterization of  $H_{125}$ .

At least two weeks of permanence at GGI warmly suggested. We hope that the middle week on future colliders will be attended by experts both on the SM/SMEFT and BSM sides

- Web site: <https://www.ggi.infn.it/showevent.pl?id=535> (we are now opening for applications)