



ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΕΜΙΝΑΡΙΟ ΠΜΣ ΥΠΟΑΤΟΜΙΚΗΣ ΦΥΣΙΚΗΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΩΝ ΕΦΑΡΜΟΓΩΝ

Δευτέρα 16 Μαΐου 2022, ώρα 14⁰⁰

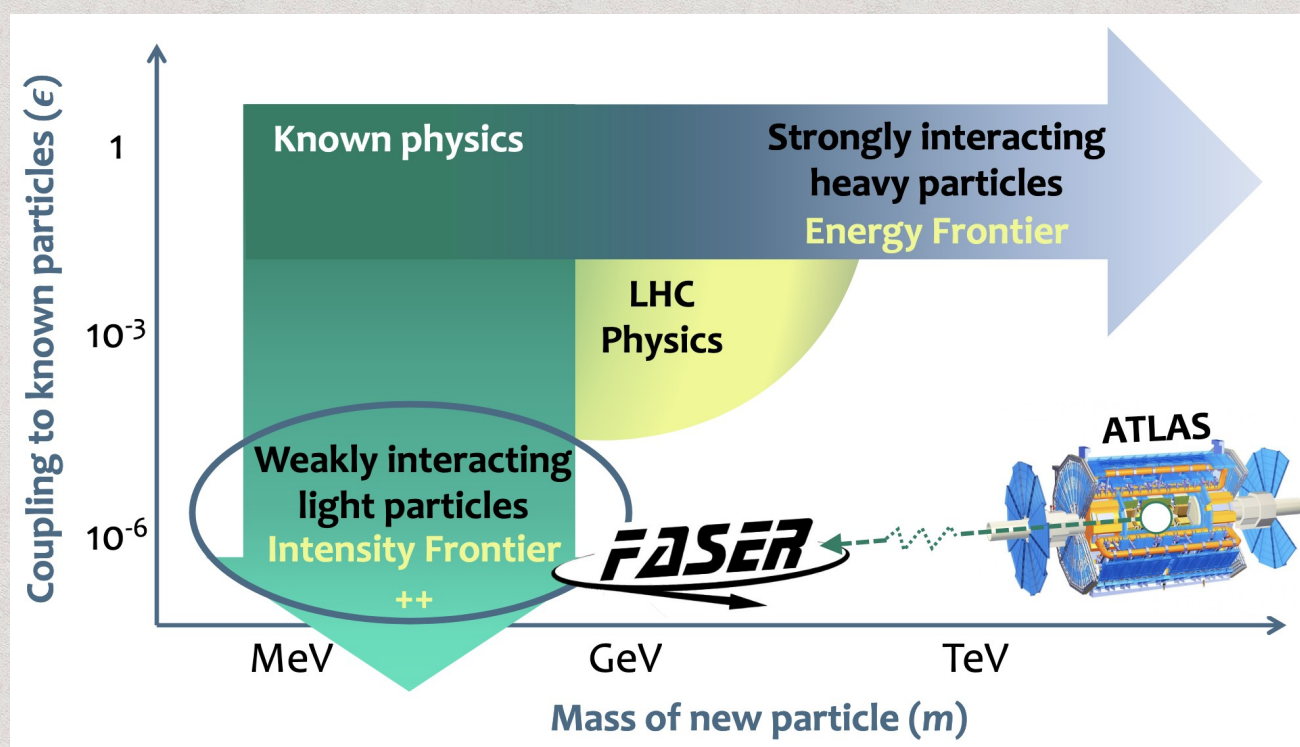
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Κύκλος σεμιναρίων



ΠΜΣ Υποατομικής Φυσικής & Τεχνολογικών Εφαρμογών

Looking forward to new physics: The FASER experiment at the CERN LHC



Άννα Σφύρλα

Τμήμα Φυσικής, Πανεπιστήμιο Γενεύης

The FASER experiment is a new small and inexpensive experiment that is being placed 480 meters downstream of the ATLAS experiment at the CERN LHC. The experiment will shed light on currently unexplored phenomena, having the potential to make a revolutionary discovery. FASER is designed to capture decays of exotic particles, produced in the very forward region, out of the ATLAS detector acceptance. FASERnu, a FASER sub-detector, is designed to detect collider neutrinos for the first time and study their properties. This talk will present the physics prospects, the detector design, the construction and commissioning activities, as well as experience with the initial Run-3 data-taking. Prospects for the experiment beyond Run-3 will also be outlined.

Το προφίλ του ομιλητή

**Άννα
Σφύρλα**

Anna Sfyrla is an associate professor at the Nuclear and High Energy Physics Department of the University of Geneva. She is working at the ATLAS and FASER experiments of the CERN Large Hadron Collider. She is studying the standard model of particles and interactions and is looking for new physics. She is engaged in actions related to education, outreach and the promotion of equal opportunities in academia.