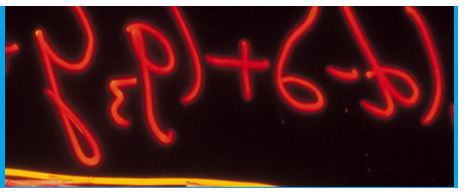
DESY
Particle and Astroparticle Physics Colloquium

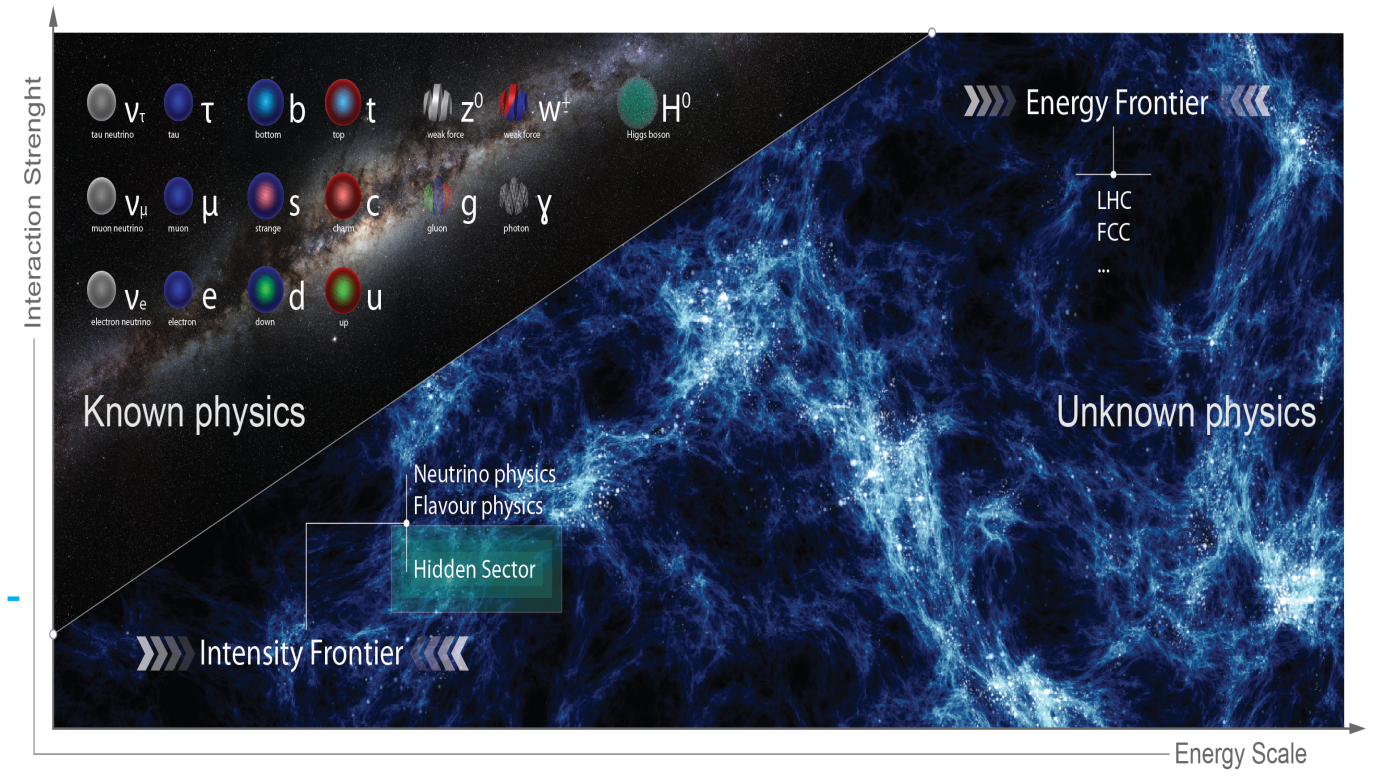


How many new particles still remain to be discovered and how to find them?

Tuesday, 27 February 2024
Auditorium & Webcast 16:00 h

Heiko Lacker (HU Berlin) and Mikhail Shaposhnikov (EPFL)

The Standard Model of particle physics (SM) and Einsteins general relativity are extremely successful in describing almost all phenomena observed in Nature so far, spanning distances from a fraction of Fermi to thousands of Mpc. M.S. will deliberate on the question formulated in the title, given that the SM does not allow neutrino oscillations, does not have a candidate for dark matter in the Universe, and does not explain the observed cosmological dominance of matter over antimatter. H.L. will describe the proposed BDF/SHiP project designed to search for new particles discussed in the first part of the talk.



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