

INVITATION

to a Physics Colloquium

in honour of the 60th Birthday of Ralph Engel

5 December 2025, 15h45

KIT, Campus South, Bld. 30.22, Otto-Lehmann-Hörsaal

15h45 Welcome address:
M. M. Mühlleitner, J. Blümer

16h00 Antonella Castellina
(INAF Torino, Pierre Auger Observatory)

“Multimessenger astrophysics at ultra-high energies: an experimental view”

Multimessenger astroparticle physics at ultra-high energies represents a frontier in our understanding of the most energetic phenomena in the Universe. By combining observations of cosmic rays, neutrinos, gamma rays, and gravitational waves, this field seeks to uncover the origin of particles with energies exceeding tens of PeV. The synergy between different messengers enables unprecedented insights into extreme astrophysical environments, enhances source identification, constrains models of particle interactions and probes new physics scenarios beyond the standard model.



17h00 Congratulations and reception