



ICEHAP Seminar

Date April 19 Wednesday 14 : 00~16 : 00

Location [ICEHAP Office \(Engineering Research Bldg.1 Room609-1\)](#)

By **Dr. Kumiko Kotera** (Institut d'Astrophysique de Paris,
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Title

『Towards EeV Neutrino Astronomy with GRAND』

Abstract

We are living exciting times: we are now able to probe the most violent events of the Universe with diverse messengers (cosmic rays, neutrinos, photons and gravitational waves). One challenge to complete the multi-messenger picture resides in the highest energies, as no ultra-high energy neutrinos have been observed yet. This challenge could be undertaken by the GRAND (Giant Radio Array for Neutrino Detection) project, which aims at detecting ultra-high energy particles, with a colossal array of 200'000 antennas over 200'000 km², split into ~20 sub-arrays of ~10'000 km² deployed worldwide. In this talk, we will present preliminary designs and simulation results, plans for the ongoing, staged approach to construction, and the rich research program made possible by the proposed sensitivity and angular resolution.