

EuPRAXIA - The Innovative and Compact Plasma Accelerator Facility for Europe

Thursday 24 February 2022 16:15 (1 hour)

The project on a “European Plasma Research Accelerator with eXcellence In Applications“, EuPRAXIA, has been placed in 2021 on the government approved ESFRI Roadmap for future large European Research Infrastructures. ESFRI stands for the European Strategy Forum for Research Infrastructures. EuPRAXIA is the first ever plasma accelerator project that has been selected for and placed on this roadmap and is the first accelerator project included since the high-luminosity upgrade of the LHC. The seminar will show the consortium of 40 member institutes plus 10 observers from 15 countries that support EuPRAXIA. It will explain the concept of this new, highly innovative research infrastructure and its distributed implementation. The underlying principles to achieve high gradient acceleration, high beam quality and compact facility size are introduced. The various user applications in this facility will be explained. The path towards its full realisation will be presented and the role of this flagship project in the recently published European accelerator R&D roadmap for particle physics will be discussed.

Presenter: ASSMANN, Ralph Wolfgang (DESY & INFN)