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PNRR_EuAPS
(EuPRAXIA Advanced Photon Sources)

Speaker: Dr. Massimo Ferrario

Abstract:

Advanced Photon Sources are key components for the successful operation of the EuPRAXIA facilities. They act, for example, as drivers for plasma waves in ultra high-gradient accelerators or as plasma-based sources of ultra-short pulses of high intensity x-rays. The EuAPS proposal (submitted by INFN, CNR and University of Tor Vergata) includes a laser-driven "betatron" X Ray facility to be tested and put in operation at the LNF SPARC_LAB test facility. EuAPS includes also the development of the required high power (up to 1 PW at LNS) and high repetition rate (up to 100 Hz at CNR Pisa) drive lasers. In this talk we report about the recent results and the status of the EuAPS project in the framework of the EuPRAXIA collaboration.