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A direct measurement of a relativistic pair-plasma beam instability at The HiRadMat Facility (CERN)

Tuesday 29 October 2024 09:20 (15 minutes)

Relativistic electron-positron plasmas are believed to occur in extreme astrophysical environments such as the jets from black-holes and neutron-star magnetospheres. In this talk, we discuss the first experimental realisation of relativistic electron-positron pair plasmas and direct measurements of magnetic field amplification due to kinetic pair-plasma instabilities.

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