

THE PHYSICS COLLOQUIUM

Thursday 9 March 2022, 4:00 p.m.
Nijenborgh 4, Lecture Hall 5115.0317 (Schröderzaal)

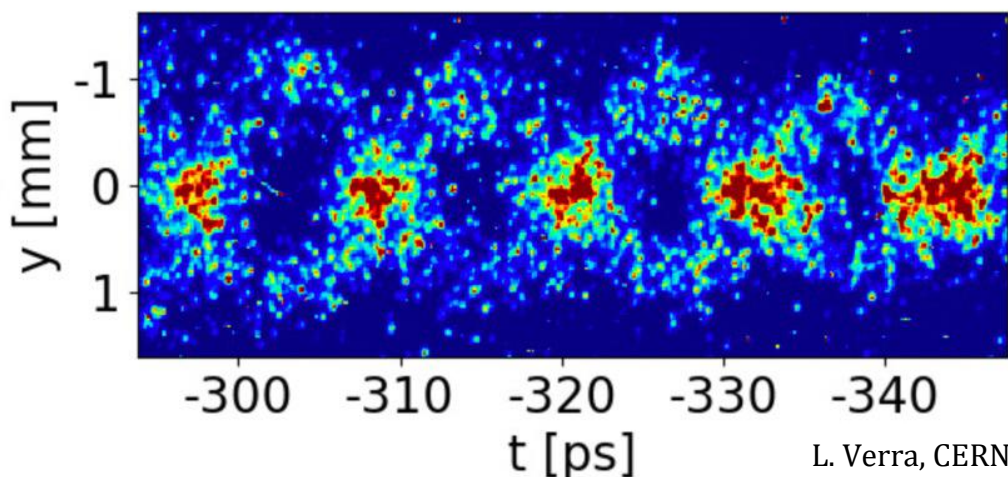
Plasma Wakefield Acceleration and the AWAKE Experiment at CERN: A New Technology to Push the Particle Energy Frontier

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The construction of ever larger and costlier accelerator facilities has its limits, and new technologies will be needed to push the energy frontier. Plasma wakefield acceleration is a rapidly developing field which appears to be an auspicious candidate technology for future high-energy accelerators.

This presentation introduces the plasma wakefield acceleration technology and gives an overview of recent results of beam and laser driven plasma wakefield acceleration. The Advanced Proton Driven Plasma Wakefield Experiment, AWAKE, at CERN will then be presented and a summary of the AWAKE results, the future program and the technological challenges will be given.



Join us for coffee starting 3:30 p.m. Refreshments will be served after the lecture.

For more information contact the host: Julia Even (j.even@rug.nl)

Website: <http://www.rug.nl/research/vsi/colloquia/>