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Progress of self-modulation experiments with electron and positron beams in plasma wakefield experiments at FACET

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The E209 experiment at FACET studies the physics of the self-modulation instability in long electron and positron beams in dense plasmas. We report on initial results from experiments in Lithium, Argon and Hydrogen plasmas. We highlight the various experimental challenges, and steps taken to overcome them.

Primary author: Dr ADLI, Erik (University of Oslo)

Co-authors: Mr LINDSTROM, Carl A. (University of Oslo); Dr VIEIRA, Jorge (Instituto Superior Tecnico); Mrs AMORIM, Ligia Diana (IST Portugal); HOGAN, Mark (SLAC National Accelerator Laboratory); Dr LITOS, Michael D. (SLAC); Dr MUGGLI, Patric (MPP Munchen); Mrs OLSEN, Veronica K. B. (University of Oslo); Dr YAKIMENKO, Vitaly (SLAC)

Presenter: Dr ADLI, Erik (University of Oslo)

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