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Prospects for proton-driven plasma acceleration

Wednesday, 16 September 2015 11:30 (30 minutes)

Proton beam is the most promising driver of wakefields to accelerate electrons to very high energy in a single plasma cell. After a brief review of the physical principles, the (AWAKE) experiment at CERN will be described and its current status will be presented. Further considerations for a future proton-driven plasma wakefield accelerator will be discussed.

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