Prospects for proton-driven plasma acceleration

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Proton beams are the most promising driver of wakefields to accelerate electrons to very high energy in a single plasma cell. After a brief review of the 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.

Primary author: CALDWELL, Allen Christopher (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut) (D)

Presenter: CALDWELL, Allen Christopher (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut)

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