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Story of Laser Plasma Accelerators

Monday, 3 June 2013 11:00 (40 minutes)

Since the first idea to use intense laser pulse to generate collective electron motion suitable for electrons acceleration, many new ideas have been proposed and have been successfully demonstrated. The tremendous progresses that have been done over the world these recent years show the vitality of a new and growing community at the interface of accelerator, plasma and laser sciences. These accelerators based on laser plasma cavities have the particularity to support very intense electric field, with values of the order of hundreds of GV/m that can be used to deliver high quality electron beam with unique parameters. This alternative approach, rich in very exciting physical phenomena, opens the route for many applications.
I'll tell you in this presentation the fascinating history of laser plasma accelerators.

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