

## Tailored smooth electron for efficient beam-driven acceleration

*Tuesday, 9 June 2015 11:30 (15 minutes)*

TeV+ accelerators will either require extremely large and costly infrastructure, or some development beyond conventionally limited acceleration gradients of ~50 MV/m. We discuss a relatively simple new longitudinal shape to drive ideal- transformer ratios and accelerating fields.

### Is this an abstract for a New Perspectives presentation?

Yes

### Is this an abstract for a Users Meeting Poster?

No

**Primary author:** LEMERY, Francois (NIU Accelerator Physics)

**Co-author:** PIOT, Philippe (FNAL)

**Presenter:** LEMERY, Francois (NIU Accelerator Physics)

**Session Classification:** Session 6 - Accelerator Physics and Technology