



Contribution ID: 176

Type: Oral

## Detector Considerations for a multi-TeV Plasma Wakefield Collider

*Thursday, 18 May 2023 14:30 (20 minutes)*

There have been several recent proposals for advanced accelerator designs at extremely high energy that involve potentially challenging experimental environments. For example, a plasma lens could be used to focus beams to significantly increase luminosity of collisions, but the presence of a plasma lens at the heart of a particle detector can create unprecedented experimental challenges. This talk will examine some of these challenges, and sketch the path towards a detector design that can deliver the physics goals of these accelerators.

**Primary author:** SWIATLOWSKI, Maximilian (TRIUMF)

**Presenter:** SWIATLOWSKI, Maximilian (TRIUMF)

**Session Classification:** Accelerators: Advanced Accelerator Concepts

**Track Classification:** Accelerator: Advanced Accelerator Concepts