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Detector Considerations for a multi-TeV Plasma Wakefield Collider

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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.

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