



Contribution ID: 180

Type: Poster

PS3-28 Coherence Properties and Diagnostics of Betatron Radiation in Laser-Wakefield Acceleration

Thursday, 9 October 2014 17:00 (1h 30m)

Simulation and detection of betatron radiation in laser-wakefield acceleration are important tasks because they can reveal theoretical and practical information about beam properties in beam-plasma interaction. We present the results of a 3-dimensional simulation with particular attention to the coherence of the radiation. Furthermore we discuss about a single-shot diagnostics to map the spatio-temporal coherence of betatron radiation.

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Session Classification: Poster Session