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Flat beam transport for a PWFA experiment at AWA

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Particle beams with asymmetric transverse emittances and profiles have been utilized in facilities for driving wakefields in dielectric waveguides and to drive plasma wakefields in plasma. The asymmetric plasma structures created by the beam produce focusing forces that are transversely asymmetric. We utilize the ellipticity of the plasma ion cavity to model the beam evolution of the flat beam driver.

Footnotes

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Primary author: MANWANI, Pratik (University of California, Los Angeles)

Co-authors: CHOW, Derek (Particle Beam Physics Lab (PBPL)); ANDONIAN, Gerard (University of California, Los Angeles); ROSENZWEIG, James (University of California, Los Angeles); KANG, Yunbo (Particle Beam Physics Lab (PBPL))

Presenter: MANWANI, Pratik (University of California, Los Angeles)

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