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Positron acceleration and beam loading in a beam-driven plasma wakefield WEIMING AN, University of California Los Angeles, WEI LU, CHENGKUN HUANG, XIAOXIAO XU, WARREN MORI — A positron beam accelerated by a beam-driven plasma wakefield is investigated by numerical simulation. Both of the electron driving beam and positron driving beam are used. A preliminary parameters design is obtained for such acceleration scheme.

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