

Abstract Submitted
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Electron beam magnetization measurement using microlens array laser transverse shaping technique ALEX HALAVANAU, PHILIPPE PIOT, Northern Illinois University — Microlens array light shaping technique is a very common way of producing homogeneous flat-top profile. Alternatively it can be used for creation of transversely modulated (patterned) beams. This technique can be applied for laser shaping in photoinjector facility. We present the practical applications of such laser patterns in linear accelerators. We also compare the experimental results with theory and numerical simulations.

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