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ELECTRON BEAM TRANFER LINE DESIGN FOR PLASMA DRIVEN FREE ELECTRON LASER

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Plasma driven particle accelerators represent the future of compact accelerating machines and Free Electron Lasers are going to benefit from these new technologies. One of the main issue of this new approach to FEL machines is the design of the transfer line needed for the matching of the plasma beam with the magnetic undulators. Despite the reduction of the chromaticity of plasma beams is one of the main goals, the target of this line is to be effective even in cases of beams with a considerable value of chromaticity.

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