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Overview of and Challenges for the FCC-ee Fast Pulsed Beam Transfer Systems

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For injection, extraction and beam disposal fast pulsed systems are needed throughout the FCC-ee complex. This presentation outlines the various kicker systems needed to transport the lepton beams from the electron source up to the collider dump system. The individual system requirements are presented, and the choice of design parameters and technology options for both beamline elements and pulse generators are discussed. Potential challenges are highlighted, together with areas for R&D and implications on infrastructure.

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