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Transfer lines for the FCC-ee injector complex

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The current proposal for the FCC-ee injector complex includes separate linacs to accelerate the electron and positron beams to 1.54 GeV, followed by a common linac to bring the beams to 6 GeV. Electron and positron transfer lines will be needed to connect these elements. There will be a damping ring for the 1.54 GeV positrons, after which a transfer line will transport the positron beam to the common linac, including a section for bunch compression. Here we present the status, results and outlook of studies for the transfer lines, as well as some of the considerations for the injection and extraction systems.

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