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3.3 TeV beam injection into combined experimental and injection FCC machine insertions

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The layout of the FCC-hh has recently been modified due to civil engineering requirements. Whereas in the previous baseline layout the low luminosity experiments were situated in dedicated straight sections, the new version combines injection and experiment in the same insertion keeping the straight section length constant. We present first optics designs for these insertions together with the challenges arising from combining these two systems. Energy deposition studies with this new layout allow to set first goals in term of both instantaneous and integrated luminosity for the low luminosity experiments in the FCC-hh.

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