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Accelerator Design and R&D for the ILC¹

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Since the formation of the Global Design Effort in early 2005, substantial progress has been made on the ILC design and a coordinated international program of R&D has been launched. R&D projects address the entire accelerator from the electron and positron sources to the damping rings and bunch compressors, main linacs and beam delivery system. Test facilities at DESY, FNAL, KEK and SLAC support a wide variety of experiments and hardware development. New initiatives include the proposed final focus test facility at KEK (ATF2) and an instrumentation and IR test facility at SLAC (ESA) as well as experiments on existing machines around the world. The extensive R&D program on superconducting RF will be covered separately.

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