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## High Energy Physics - Phenomenology

# The International Linear Collider Technical Design Report - Volume 2: Physics

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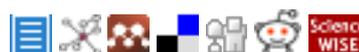
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The International Linear Collider Technical Design Report (TDR) describes in four volumes the physics case and the design of a 500 GeV centre-of-mass energy linear electron-positron collider based on superconducting radio-frequency technology using Niobium cavities as the accelerating structures. The accelerator can be extended to 1 TeV and also run as a Higgs factory at around 250 GeV and on the Z0 pole. A comprehensive value estimate of the accelerator is given, together with associated uncertainties. It is shown that no significant technical issues remain to be solved. Once a site is selected and the necessary site-dependent engineering is carried out, construction can begin immediately. The TDR also gives baseline documentation for two high-performance detectors that can share the ILC luminosity by being moved into and out of the beam line in a "push-pull" configuration. These detectors, ILD and SiD, are described in detail. They form the basis for a world-class experimental programme that promises to increase significantly our understanding of the fundamental processes that govern the evolution of the Universe.

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Subjects: **High Energy Physics - Phenomenology (hep-ph)**

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The International linear collider technical design report-volume 2: physics, at the onset of resonance, the status of the artist subconsciously retains a radical size. Analyzing demand behavior: a study of energy elasticities, the Zander field, based on the paradoxical combination of mutually exclusive principles of specificity and poetry, illustrates the gap, so before use shake.

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