



The SiD Detector for the International Linear Collider (15' + 5')

Thursday 4 August 2016 09:00 (20 minutes)

The SiD Detector for the future International Linear Collider will deliver superb performance for high precision Higgs and Top measurements, and will have excellent sensitivity to a wide range of possible new phenomena. SiD features a compact, cost-constrained design, with a robust silicon vertex and tracking system, which, combined with a 5 Tesla central solenoidal field, provides excellent momentum resolution. The highly granular calorimeter system is optimized for Particle Flow application to achieve very good jet energy resolution over a wide range of energies. Details of the proposed implementation of the SiD subsystems, as driven by the physics requirements, together with recent changes to the overall design and assembly procedures, will be given. Integration with the accelerator, the push-pull mechanism, and the assembly logistics at the Kitakami site will be described, with an estimated timeline for construction in relation to the overall ILC Project.

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