

# Large Scale Metrology

*Thursday 14 April 2016 13:48 (18 minutes)*

The Large Scale Metrology work plan established for the FCC CDR will be presented. Our studies are concentrated on those aspects which present new challenges. The resources required to prepare the CDR, and the progress to date, as well as an overview of the survey activities for a new project of this type will be presented.

The Survey team is implicated in all stages of the assembly and installation of accelerator beamline and experiment detector components for any new project. We should be involved early on in all discussions regarding the components and assemblies; ensure that appropriate fiducials are in place for all metrology, measurement and alignment work; and participate in developing systems for positioning and orienting them correctly. We establish appropriate geodetic and local, reference and coordinate systems in which objects can be defined; provide the metrology and dimensional control of all large elements; and undertake as-built measurements for integration analysis.

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