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Title: The development of the ATLAS SCT

Time: Sep 11 ~10:00

Length: 30'

The ATLAS semiconductor tracker (SCT) has been assembled and is being commissioned and integrated into the ATLAS experiment. The scale of the project exceeds that of any existing detector with a total silicon area of  $60\text{m}^2$  and 6 million readout channels and power budget of 40KW. This paper reviews the design considerations for the SCT, the experience gained in constructing the tracker and the results achieved. The lessons learned during the construction phase are documented and analysed and the relevance to future large silicon projects is discussed.