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Event reconstruction in the Forward and Backward Silicon detectors of HERA experiment H1

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Stand-alone event reconstruction was developed for the Forward and the Backward Silicon Trackers of the H1 experiment at HERA. The reconstruction module includes the pattern recognition algorithm, a track fitter and primary vertex finder. The reconstruction algorithm shows high efficiency and speed. The detector alignment was performed to within an accuracy of 10 μm which corresponds to the spatial hit resolution. The reconstruction software has been used for on-line and off-line event analysis of the silicon strip detector's data.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

H1 collaboration

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