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Tracking SW developments

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The ATS (a tracking software) package, which is an experiment independent common tracking software toolkit will be used for tracking in the FCC software. The ATS package contains the existing and well tested ATLAS tracking software decoupled from ATLAS specific components. Furthermore the software was updated to new coding standards and prepared for possible concurrent use in the future. A common introduction to the ATS package, its status and development will be given.

In concrete the integration of the ATS package into the FCC software suite, containing its automatic geometry conversion and smooth embedding into the FCC simulation framework will be shown.

A first standalone demonstrator of the Tracking package including geometry, fast simulation, truth tracking and tracking fitting is foreseen, as well as its usage in the FCC environment using a FCC-like inner detector directly translated from the FCC detector description.

Author: HRDINKA, Julia (Vienna University of Technology (AT))

Presenter: HRDINKA, Julia (Vienna University of Technology (AT))

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