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Feasibility studies for the Forward Spectrometer

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The Forward Spectrometer developed for the PANDA detector will consist of many different detection systems allowing for a precise track reconstruction and particle identification. A feasibility studies done for the forward spectrometer will be presented. In the first part results of the simulations will be shown with the focus on studies of particle occupancies of the tracking stations. In next importance of the Forward tracker for the reconstruction of the DDbar decays will be shown on example of the reconstruction of Ψ(4040) state. Finally, results from tests of the prototype straw-tube tracking chambers, obtained at Forschungzentrum Juelich will be discussed.

Primary author: Mr BIERNAT, Jacek (Jagiellonian University)

Presenter: Mr BIERNAT, Jacek (Jagiellonian University)

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