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Status of the analysis using the Forward Vertex Detector at PHENIX

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The Forward Vertex Detector (FVTX) was installed in PHENIX this year and operated during the $\sqrt{s} = 510$ GeV $p+p$, $\sqrt{s_{NN}} = 193$ GeV U+U, and $\sqrt{s_{NN}} = 200$ GeV Cu+Au runs. The FVTX has full azimuthal coverage between $1.2 < |y| < 2.2$ and consists of 4 stations with 2 planes of silicon mini-strips with $75 \mu\text{m}$ pitch in the radial direction and 96 azimuthal segments. The resolution of the distance of closest approach (DCA) measured by the FVTX is suitable for the identification and separation of charm and bottom quark decay yields. We also expect to improve the measurement of the dimuon opening angle and reduce background, providing J/ψ , ψ' mass peak separation. This poster will show the status of the analysis of the data collected by the FVTX this year.

Author: DA SILVA, Cesar Luiz (L)

Presenter: DA SILVA, Cesar Luiz (L)

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