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ITS Functions

Physics with the ITS

Production of low-momentum heavy hyperons and particles with open charm.

Production of hyper- and super-nuclei.

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Material budget

Simulations results

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Material budget

Simulation results

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Material budget

Simulation results

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 - 3.9.1.1 HIC Test and characterization
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MPD beam pipe diameter variants: 40 cm & 64 cm

7.3 Track reconstruction efficiency

(Full configuration (IB + OB) for a beam pipe diameter of 40 cm)

- 7.4 Momentum resolution
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- 7.6 Conclusions
- 8. Physics performance
 - 8.1 Simulation methods and conditions

Three configurations:

IB + OB for a beam pipe diameter of 40 cm (Complete project realization)
Only OB for a beam pipe diameter of 64 cm (First stage of the project)
IB + OB for a beam pipe diameter of 64 cm (in case of impossibility for beam pipe diameter reduction)

- 8.2 Strange particles reconstruction
 - 8.2.1 Expected yields
 - 8.2.2 Transverse momentum coverage
 - 8.2.3 (...)
- 8.3 Charmed particles reconstruction
 - 8.3.1 Expected yields
 - 8.3.2 Transverse momentum coverage
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