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The gluon Sivvers asymmetry measurements at COMPASS

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The Sivvers effect describes the correlation between the spin of the nucleon and the orbital motion of partons. For gluons it has been measured at COMPASS via J/Ψ production and via high- p_T hadron pair production in Semi-Inclusive Deep Inelastic Scattering of a 160 GeV/c muon beam off transversely polarised proton and deuteron targets by determining the amplitude of the modulation of the Sivvers angle ϕ^{Siv} distribution. Both the approach using J/Ψ channel and high- p_T hadron pair selection will be described in detail and the results given.

Primary author: Mr SZABELSKI, Adam (University of Trieste)

Presenter: Mr SZABELSKI, Adam (University of Trieste)

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