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Exclusive meson production at HERMES

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The HERMES experiment has extensively studied exclusive meson production in deep-inelastic scattering of the 27.6 GeV electron/positron beam of HERA by various gaseous targets internal to the storage ring. Recent results on exclusive omega production are presented: spin-density matrix elements using unpolarized and longitudinally polarized leptons and unpolarized hydrogen and deuterium targets, and azimuthal distributions for scattering from transversely polarized protons. In addition, an analysis of ratios of helicity-amplitudes for exclusive production of rho mesons from transversely polarized protons is presented.

Primary author: Mr SCHNELL, Gunar (University of the Basque Country Bilbao)

Presenter: MANAENKOV, Sergey (B.P. Konstantinov Petersburg Nuclear Physics Institute - PNPI)

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