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HERMES latest results on phi meson spin density matrix elements

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The HERMES experiment at DESY, Hamburg collected a set of data on hard exclusive vector meson (ρ, ϕ, ω) lepton production using the 27.6 GeV self-polarized lepton beam of HERA accelerator and longitudinally or transversely polarized or unpolarized gas target. The latest results on spin density matrix elements of exclusive ϕ meson production using the full statistics collected at HERMES, are presented. Conclusions on the helicity amplitudes, which are related to spin density matrix elements, are also presented.

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