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Legendre Expansions for Two-Hadron Reactions[1] IGOR STRAKOVSKY, The George Washington University, YAKOV AZIMOV, Petersburg Nuclear Physics Institute, NRC Kurchatov Institute, WILLIAM BRISCOE, The George Washington University — Modern experimental facilities and detectors provide tremendous volumes of detailed data. For two-hadron reactions, they are usually presented as a set of multiple panels, *e.g.*, angular distributions at many particular energies. Such presentations lose visuality, and their physical content may be extracted only through some model-dependent treatment. Instead, we suggest to use expansion into the Legendre series with a relatively small number of essential coefficients. This approach was applied in several experimental investigations and demonstrated its higher visualization. This talk presents some general properties of the Legendre coefficients which allow one to extract physical information even without any model-dependent assumptions.

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