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The Pomeron, Odderon, and nucleon resonances in φ-meson photoproduction

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We suggest a possible explanation for the $\varphi(1020)$ photoproduction mechanism in the W = 2.0–2.8 GeV region covering the full scattering angles. We have found that, with the universally accepted Pomeron exchange, the Odderon and three PDG N^* resonances play a crucial to describe the cross sections and spin-density matrix elements data from the CLAS collaboration.

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