

Evidence for a high spin N^* resonance in eta photo-production in the extremely backward angle

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We carried out exclusive measurements of photo-production of an eta meson from a proton target with an egg-shape BGO calorimeter (BGOegg) and forward charged particle detectors at LEPS2/SPring-8, Japan. The differential cross-section at extreme backward angles were obtained and compared with the prediction from etaMAID2018. Possible evidence for a high spin N^* resonance with a mass of $2.2 \sim 2.3$ GeV will be presented.

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