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Measurement of the phase difference between strong and electromagnetic amplitudes via the lineshape scan of the J/ψ resonance

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The J/ψ charmonium state can decay to the same final states through either strong or electromagnetic mechanism. Theoretical models predict rather different values of the relative phase difference between the two amplitudes. The BESIII experiment has performed an energy scan of the process $e^+e^- \rightarrow J/\psi \rightarrow \phi\eta$ in the vicinity of the J/ψ peak. In this talk we report the determination of the phase difference between strong and electromagnetic amplitudes from the lineshape scan of the J/ψ resonance.

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