

Khuri-Treiman analysis of the $J/\psi \rightarrow \pi^+\pi^-\pi^0$ reaction

Friday, June 9, 2023 9:25 AM (25 minutes)

In this talk, recent results from the Joint Physics Analysis Center (JPAC) collaboration will be discussed, mainly based on 2006.01058 and 2304.09736. We will address the decays $V \rightarrow 3\pi$, with V either the omega or the J/ψ meson, in the context of Khuri-Treiman equations. These allow a representation of a three-body decay amplitude that takes into account unitarity (final state interactions) of the three two-body subsystems. In particular, for the decays J/ψ and omega to 3π , elastic di-pion unitarity will be incorporated.

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