

Abstract Submitted
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Dalitz Plot for $\eta \rightarrow \pi^+\pi^-\pi^0$ ¹ MIGUEL GARCIA, Arizona State University, CLAS COLLABORATION — I present a preliminary Dalitz plot analysis of the decay $\eta \rightarrow \pi^+\pi^-\pi^0$. The data used in this analysis were taken by the CLAS Collaboration during the g1c running period. A physical interpretation of the Dalitz plot is provided. Extraction of parameters related to the shape of the Dalitz plot is compared to theoretical predictions, as well as previous experimental values. Comparison of the data with these theoretical predictions might shed light on the double-quark mass ratio for the SU(3) constituent quarks. This important subject will be discussed briefly.

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