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Effect of K^* meson magnetic dipole moment on the $e^+e^- \to K^+K^-\pi^0\pi^0$ cross section

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Abstract

We explore the sensitivity of the $e^+e^- \to K^+K^-2\pi^0$ cross section to the magnetic dipole moment (MDM) of the K^* vector meson. We describe the $\gamma K^* \to K2\pi$ vertex using a vector meson dominance model, including the MDM, $a_{K^*} = 6.3$, in units of $e/2\, m_{K^*}$. We emphasize the need for higher precision data to provide a first data-driven determination of this parameter to confront it with theoretical predictions.

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