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The properties of dynamically generated h_1 axial-vector meson resonance

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We investigate the axial-vector meson h_1. We coupled 4 channel, $\pi\rho$, $\eta\omega$, $K\bar{K}^*$ and $\eta\phi$, which generate two resonance structure within energy up to 600 MeV above the threshold. Moreover, having reproduced the experimental data of charge exchange reaction ($\pi p \to 3\pi n$), we extract the pole position and residue of each resonance and identify them as the existing $h_1(1170)$ and $h_1(1380)$ resonances. We discuss the nature of these resonances and their internal structures.

Present via

Author: CLYMTON, Samson (Inha University)

Co-author: KIM, Hyun-Chul (Inha University)

Presenter: CLYMTON, Samson (Inha University)

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