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Interpretation of charmonium like states as a dimesonic molecules

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The molecular dimesonic states (meson-antimeson) are being studied in potential model framework in heavy flavor sector. The confined one gluon exchange interaction potential (COGEP), one pion exchange interaction potential (OPEP) is being used between meson-antimeson pairs to calculate their masses and binding energy. We search various exotic states like $X(3872)$, $X(3940)$, $Y(4008)$, $X(4050)$ etc. as molecular states. The decay width and two photon decay width are also studied for dimesonic states.

On behalf of collaboration:

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