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## Triangle singularities in the production of X(3872) and $T_{cc}^+(3875)$

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If the X(3872) or  $T_{cc}^+(3875)$  is a weakly bound charm-meson molecule, it can be produced by the creation of  $D^*\bar{D}^*$  or  $D^*D^*$  at short distances followed by the rescattering of the charm mesons into X(3872) or  $T_{cc}^+(3875)$  and a pion or a photon through a triangle loop. A triangle singularity produces narrow peak in the reaction rate in production of X(3872) or  $T_{cc}^+(3875)$ . The observation of this peak would provide strong evidence in support of the identification of the X(3872) or  $T_{cc}^+(3875)$  as a charm-meson molecule.

## Category

talk

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