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Triangles and rescattering in light- and heavy-meson decay

Thursday 16 March 2017 16:30 (30 minutes)

I shall give a brief introduction to triangle singularities (TS), with a new pedagogical way to face them. Then I will report on the interpretation of the $f_1(1420)$ as a decay mode of the $f_1(1285)$ into $\pi a_0(980)$ through a TS, and $K^* \bar{K}$. Then I briefly report on the $f_2(1810)$ and make predictions for the decay $\bar{B} \rightarrow \bar{K} \pi D_{s0}^*(2317)$, which shows a peak due to a TS. Concerning rescattering in decays of particles, I shall describe the $\chi_{c1} \rightarrow \pi^+ \pi^- \eta$ decay measured at BESIII and make predictions for $\eta_c \rightarrow \pi^+ \pi^- \eta$ decay.

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