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Triangle Singularity Plus Isospin breaking

Triangle Singularity (TS) is a loop effect that occurs under specific kinematic conditions. Isospin breaking is a rare decay process in strong interactions. In certain scenarios, Triangle Singularity can amplify the effects of isospin breaking. In this context, we will explore the $J/\psi \rightarrow \Lambda \bar{\Lambda} \pi$ process involving Triangle Singularity. Subsequently, in this process, we will discover some benefits for the search for the $\Sigma(1/2^-)$ particle.

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