

# The 23rd International Conference on Few-Body Problems in Physics (FB23)



Contribution ID: 45

Type: 2.Parallel session talk

## 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.

**Primary authors:** Dr HUANG, Qi (Nanjing Normal University); Dr ZIXUAN, Ma (Nanjing Normal University); 吴, 佳俊 (University of Chinese Academy of Sciences); PINGRG, Ping (高能所); HE, Jun (Nanjing Normal University); HUANG, Hongxia (Nanjing Normal University)

**Presenter:** 吴, 佳俊 (University of Chinese Academy of Sciences)

**Session Classification:** Parallel 5: Few-nucleon systems, including QCD inspired approaches

**Track Classification:** Strange and exotic matter, including hypernuclear physics