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## The first observation of narrow peak and isospin-violating Lambda(1405) production

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In this talk I will discuss the triangle mechanism in Lambda\_c decay and isospin-violating Lambda(1405). This process is prohibited by the isospin symmetry, but the decay into this channel is enhanced by the contribution of the triangle diagram, which is sensitive to the mass of the internal particles. Interestingly, a first narrow peak was observed in the pi0 Sigma0 invariant mass distribution, which originates from the Lambda(1405) amplitude, but is tied to the mass differences between the charged and neutral Kbar or N states. The observation of the unavoidable peak of the triangle singularity in the isospin-violating Lambda(1405) production would provide further support for the hadronic molecular picture of the Lambda(1405) and further information on the Kbar N interaction.

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