

Tripartite entanglement in B decays

The tripartite entanglement between two spins and orbital angular momentum (OAM) has been previously discussed for Higgs decays into two vector bosons in 2403.13942. For B decays into two spin-one particles it is basically the same situation, though I never published it. I want to highlight the possibility of such measurements, using the data already published by experiments to calculate the value of entanglement markers. Thereby, experiments may be motivated to do it properly. Entanglement measurements involving OAM are quite rare, and never done yet in high-energy physics.

Author: AGUILAR SAAVEDRA, Juan Antonio (Consejo Superior de Investigaciones Científicas (ES))