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Entanglement and new physics in $H \rightarrow VV$

I will discuss the quantum entanglement between spins and orbital angular momentum in $H \rightarrow WW, ZZ$ decays, for Higgs produced in the Drell-Yan process at e⁺e⁻ colliders. I will also address the possibility to observe new physics contributions to the HVV interactions via the analysis of multi-dimensional angular distributions in those decays.

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