

## Phenomenology 2025 Symposium



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# Quantum Entanglement is Quantum: $h \rightarrow VV^*$

*Tuesday 20 May 2025 14:30 (15 minutes)*

Driven by the increasing interest in probing spin structure and quantum entanglement in diboson processes, we study polarization and spin correlations in Higgs  $\rightarrow VV$  decays. We show that higher-order electroweak corrections are crucial for accurately determining these coefficients and discuss their impact on proposed entanglement measurements.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

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**Session Classification:** Electroweak

**Track Classification:** Electroweak, Higgs, and Top Quark Physics