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Higgs boson properties from offshell production in ZZ to 2l2nu final state at CMS

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Offshell production provides a unique way to measure the Higgs boson width and test unitarity in diboson production amplitudes. This process also adds sensitivity when constraining the Higgs boson anomalous couplings. In this talk, studies of offshell Higgs boson production in the ZZ to 2l2nu final state are presented, using Run 2 data from the CMS experiment. Results from the ZZ to 2l2nu final state are combined with published ZZ to 4l results to derive strong constraints.

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