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Off-shell and on-peak measurements intertwined

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As the LHC experimental collaborations have released results about the influence of the existence of the Higgs boson outside of its mass shell, interpreting it as a constraint on its total width, we propose a more model-independent way to recast these observations. We advocate for the use of the parametrisation previously introduced in hep-ph:0901.0927 and hep-ph:1210.8120 to use conjointly on-peak and off-shell measurements. Using a simple toy-model, we show that a degeneracy existing on-peak in the parameters can be lifted by also including off-shell data.

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