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Towards a combined global SMEFT fit: Using likelihood analyses in the Top and Higgs sector

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We present an updated global SMEFT analysis in the Top sector using the SFitter framework which focuses on a comprehensive treatment of uncertainties. We make use of a newly implemented marginalization procedure which allows for comparisons between profiling and marginalization methods. In addition, two top measurements included in the fit are updated using likelihoods made publicly available by the Top working group at ATLAS. This enables us to extract uncertainties more easily and to use a much more flexible treatment of the different nuisance parameters. Finally, we present some preliminary results for a combined global fit of this Top analysis with a previous analysis in the Higgs and Electroweak sector.

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