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## The mass of the $\sigma$ in a chiral ensemble in $SU(2)$ with two fundamental flavours

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$SU(2)$  with two fundamental flavours is a minimal model for the Composite Higgs sector proposed to tackle the hierarchy and naturalness problems associated with the Standard Model Higgs boson. We present an update on lattice results for the spectrum of  $SU(2)$  with two fundamental flavours with the exponential clover Wilson fermion action. This includes the final non-perturbative tuning of  $c_{SW}$  for all  $\beta \geq 2.15$ , and for the first time in this setup the mass of the  $\sigma$  towards the chiral limit, just below the threshold of decay into two pions.

**Primary authors:** Prof. RAGO, Antonio (QTC & IMADA, University of Southern Denmark); ROMERO-LOPEZ, Fernando (MIT / Uni Bern); BOWES, Laurence Sebastian (University of Plymouth); FRITZSCH, Patrick (Trinity College Dublin); MARTINS, Sofie (University of Southern Denmark); DRACH, Vincent (University of Plymouth)

**Presenter:** BOWES, Laurence Sebastian (University of Plymouth)

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