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The scalar sector of $SU(2)$ gauge theory with $N_F = 2$ fundamental flavours

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We present a non perturbative study of $SU(2)$ gauge theory with two fundamental Dirac flavours.

This theory provides a minimal template which is ideal for a wide class of Standard Model extensions featuring novel strong dynamics.

After reviewing our findings for the Goldstone bosons and spin-1 spectrum, we present our new results for the sigma and eta states.

We evaluate the relevant disconnected contributions and obtain benchmark results that are crucial input for model building.

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