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Non-local Quark Model for modelling the composite Higgs particle

In this poster, we propose an approach for the Higgs boson as top-quark condensate within non-local Nambu–Jona-Lasinio (NJL) model. The advantage of non-local models over local ones is the spectrum of composed particle masses, which has a lower value than the sum of masses of particles of which it consists. By adjusting two parameters in the non-local NJL, the interaction range and the coupling, we can simultaneously describe the top quark mass and the Higgs boson mass.

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