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The Quark propagator in QCD and QCD-like theories

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QCD-like theories provide testing grounds for truncations of functional equations at non-zero density, since comparisons with lattice results are possible due to the absence of the sign problem. As a first step towards such a comparison, we determine for various theories the chiral and confinement/deconfinement transitions from the quark propagator Dyson-Schwinger equation by calculating the chiral and dual chiral condensates, respectively.

Author: CONTANT, Romain (University of Graz)

Co-author: HUBER, Markus (University of Graz)

Presenter: CONTANT, Romain (University of Graz)

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