

Workshop for young scientists with research interests focused on physics at FAIR



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Lattice QCD and physics at FAIR

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Simulations of dense quark matter are hampered by the sign problem, invalidating the usual importance sampling based methods of lattice QCD, and preventing the determination of the location of the critical point on the QCD phase diagram. Possible workarounds and solutions to the problem are discussed, with emphasis on the review of the recent successes of the Complex Langevin approach, based on the analytic properties of the QCD action.

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Session Classification: Talks