

安徽省基础学科(理论物理) 研究中心系列讲座

Functional QCD and the QCD phase structure

报告人 : Prof. Jan M. Pawłowski (Heidelberg University)

报告地点 : C601

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摘要:

In this talk, a brief introduction to the functional approach (functional renormalisation group, Dyson-Schwinger equations) to QCD is provided. This includes a discussion of the complementarity of functional QCD and lattice QCD for the access to the phase structure of QCD. Importantly, functional QCD allows a direct access to the phase structure of QCD at high densities and we survey respective results.



报告人简介:

Jan M. Pawłowski is a full professor at Heidelberg University, Germany. He received his doctorate in physics from Heidelberg University in 1994. After research appointments at the University of Jena, the Dublin Institute for Advanced Studies, FAU Erlangen–Nürnberg, and the University of Tübingen, he joined Heidelberg University, where he served as a Research Group Leader at the Institute for Theoretical Physics from 2004 to 2014 and has been a staff member since 2014. Jan has served as a Principal Investigator in the Collaborative Research Center SFB 1225 ISOQUANT, contributed to Heidelberg University's STRUCTURES Cluster of Excellence, and previously coordinated the theory division of the Helmholtz Alliance at the ExtreMe Matter Institute (EMMI).