

安徽省基础学科(理论物理)研究中心学术报告

Jet quenching and medium response in relativistic heavy-ion collisions

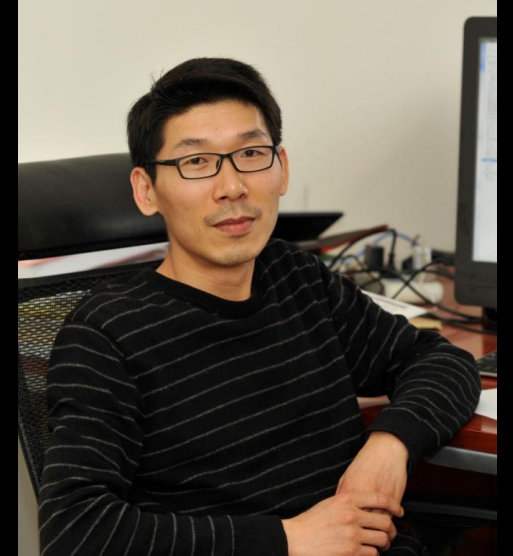
会议地址: 物质楼C1204

会议时间: 2025年04月21日 16:30 – 17:30

报告人: 秦广友 教授 (华中师范大学)

摘要:

One of the main goals of ultra-relativistic heavy-ion collisions, such as those performed at the Relativistic Heavy-Ion Collider (RHIC) and the Large Hadron Collider (LHC), is to create the quark-gluon plasma (QGP) in the laboratories, to study its novel properties and to explore the phase structure of strong-interaction matter under extreme conditions. High-energy jets that are produced in early hard scatterings provide very important probes for studying the macroscopic properties and microscopic structures of the QGP. In this talk, I will present some recent theoretical and phenomenological studies on jet quenching, medium response and related topics in heavy-ion collisions at RHIC and the LHC.



报告人简介:

Guang-You Qin is currently a professor of physics at Institute of Particle Physics (IOPP) at Central China Normal University (CCNU). He received his bachelor degree from Shandong University in 1999, his master degree from Peking University in 2002, and his Ph.D. degree from McGill University in Canada in 2008. Then he moved to the U.S. and did his postdoctoral research at The Ohio State University, Duke University and Wayne State University. In 2013, he joined CCNU. Qin's research focuses on the theory and phenomenology of high-energy nuclear physics. His current research interests include dynamical simulation of relativistic heavy-ion collisions, hard probes and collective properties of quark-gluon plasma, and the strong-interaction matter under extreme conditions.