



京师核科学论坛 第110期

学术报告

题 目: Introduction to Nuclear
Astrophysics

主讲人: Bakhadir Irgaziev 教授

时 间: 2026年8月26日上午10:00

地 点: 京师科技大厦B座1314会议室



报告人介绍:

巴哈迪尔·伊尔加济耶夫 (Bakhadir Irgaziev), 乌兹别克斯坦国立大学理论物理教授。致力于少体系统、轻原子核团簇结构、渐近归一化系数、弱相互作用下 β 衰变与半衰期理论、天体演化相关低能辐射俘获反应等方向的研究工作。长期从事核反应与核天体物理理论研究。

报告简介:

Here, I present a brief history of the Universe based on current cosmological theories. The different eras of the Universe, starting from its origin with the Big Bang, will be outlined. Nuclear astrophysics is an interdisciplinary field that examines the primordial synthesis of light elements such as hydrogen and helium, as well as the nuclear reactions occurring in stars that produce all the chemical elements in the Universe. This field explains the role of nuclear energy in cosmic phenomena, including the life cycles of stable stars, how they evolve, and how they eventually end their lives. Additionally, I will discuss the theories regarding proton-proton (pp) and proton-electron-proton (pep) reactions that take place in the Sun. The talk is aimed at a diverse audience, including specialists in nuclear physics.