量子物理学・ナノサイエンス第 109 回特別セミナー

Numerical relativistic hydrodynamics in curved spacetime

講師 ： **Professor Jinho Kim**

Korea Astronomy and Space Science Institute (KASI)

日程 ： 4 月 16 日（水）13:30 –

場所 ： **Zoom***

概　要

Numerical simulations of relativistic hydrodynamics and magnetohydrodynamics have become indispensable tools in studying high-energy astrophysical phenomena, including accretion flows around black holes and the dynamics of neutron stars. In strongly curved spacetimes, the equations governing fluid motion generally lack analytic solutions, the numerical simulation is the only way to achieve meaningful insight. In this presentation, I will provide an overview of the finite volume method for solving the equations of relativistic hydrodynamics in curved spacetime. I will also discuss recent applications of this approach.

*本 ZOOM セミナーに参加されます場合には、事前に下記より登録を済ませてください。

https://zoom.us/meeting/register/zweyIe-zQb-6J5_1Es37eA

ご来聴を歓迎いたします。

連絡教員　　関澤　一之（内線 2463）