



“Magnetic Monopoles in Heaven and Earth”

by Takeshi Kobayashi (SISSA, Italy)

Time and Date: 15:00-17:00, July 9, 2025

Place: Room 745, Science Complex B (H-03) (hybrid)

Registration: "<https://us02web.zoom.us/meeting/register/EvALEhHkS2GMnSJXa5LyJQ>"

Abstract:

Magnetic monopoles are hypothetical particles that carry a magnetic charge. They are predicted to exist as soliton solutions in a wide range of particle physics theories beyond the Standard Model, however an experimental detection of monopoles is notoriously difficult. In this talk I will give an introduction to monopoles, with an emphasis on searches in terrestrial experiments and astrophysical observations. I will then explain that the magnetic fields in our universe are particularly useful for unveiling the properties of monopoles, and why it is a good time for carrying out such studies.

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