



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
COLLOQUIUM

Revealing the Dynamic Universe

by



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Date: November 16, 2023 (Thursday)

Time: 4:00 - 5:00 p.m.

Place: LPN LT, Y C Liang Hall, CUHK

(Light refreshments will be served at [SCNB 1/F lobby](#) from 3:30 to 3:50 p.m.)

ALL INTERESTED ARE WELCOME

Abstract

Human's perception of the cosmos and all our philosophy depend on our collective sensors. Modern optical sky surveys in the 20th gave rise to the concept of dynamic universe, the forefront of which currently situated in the radio bands and manifest itself as fast radio bursts (FRB). The discovery of FRBs has just won the 2023 Shaw's prize in astronomy. We built the largest radio telescope, namely, the Five-hundred-meter Aperture Spherical radio Telescope (FAST), which has been leading the field of characterizing repeating FRBs ever since the inception of FAST's operation in 2020.

With close to 100 FAST-based papers, including 5 on Nature and 2 on Science, we started to reveal the evolution of repeating FRBs. We are also working on the next generation FRB machine, the aim of which is to increase the discovery rate by orders of magnitude over all current radio telescopes.

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