



# 2025

## 陳守信中子科技與應用榮譽講座

Sow-Hsin Chen Distinguished Lectureship on Neutron Science and Technology



Speaker :

### Prof. Koji Ono

- Director, BNCT Joint Clinical Institute, Osaka Medical and Pharmaceutical University

Sep.

02

(Tue) 03:30 PM

Hall NE69, Engineering and System Science Building, National Tsing Hua University

### The accelerator neutron irradiation system for BNCT

**Abstract:** At Kyoto University, we developed the world's first accelerator-based neutron irradiation system for BNCT, using a cyclotron and Be target (30 MeV,  $\geq 1.0$  mA). It is the only system with rigorous clinical trials and regulatory approval. By the end of this year, treatments will exceed 1,000, with no delays from malfunction. Clinical outcomes show 45% CR and over 80% CR+PR in recurrent head and neck cancer. This lecture will highlight current progress and future challenges of BNCT.

Sep.

03

(Wed) 10:40 AM

Host by National Synchrotron Radiation Research Center, Room D260, Activity Center

### What should we do for the future of BNCT?



National Tsing Hua University



College of Nuclear Science, National Tsing Hua University



National Synchrotron Radiation Research Center