Lecturer : Hiroyuki Takahashi

Title: “Micropattern gaseous neutron detectors”

Abstract:

Neutron detection relies on the use of particular nuclides, which restricts the detector design and performance. The challenge in the use of new technologies could potentially enhance the performance of the detector. This lecture first introduces the general working principle of gaseous neutron detectors, then focuses on the present technologies of micropattern gaseous neutron detectors. The recent shortage problem on He-3 gas is tremendous impacts on the neutron detectors. Prospects and outlook for new detection principles will be shown.