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Professor
Department of Physics



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Key Words Nuclear Reactions, Neutron Star Physics, Radiation Physics, Big Bang Nucleosynthesis, Detector Development, Nuclear Energy, Computational Physics

Research Area Nuclear reaction, Nuclear structure, Neutron star, Nucleosynthesis, Detection and application of radiations, Construction and application of nuclear data, Nuclear energy, Computational physics

Education

- University of Texas at Austin PhD
- Sungkyunkwan University
- Sungkyunkwan University BSc

Experience

- Research Associate Forschungszentrum, Juelich, Germany
- Director Basic Atomic Energy Research Institute supported by the Korean Ministry of Education, Science and Technology TRIUMF, Canada
- Visiting Scholar
- Professor Department of Energy Science, Sungkyunkwan University
- Professor Department of Health Sciences and Technology, Sungkyunkwan University

Position

- Member Committee for Nuclear Utilization & Development, Ministry of Science, Information, and Planning
- Member Steering Committee, Proton Accelerator Therapy Project, MEST
- Member Investigation & Analysis Supporting Committee, National Assembly
- Head Division of Nuclear Physics, the Korean Physical Society
- Fellow Korean Physical Society

Selected Publication

- Neutron spectra produced by 30, 35 and 40 MeV proton beams at KIRAMS MC-50 cyclotron with a thick beryllium target, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A (Oct 11 2015)
- Geometrical parameters of tracks registered by collimated alpha particles on CR-39 detector, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B (May 15 2015)
- Yield estimation of neutron-rich rare isotopes induced by 200 MeV/u Sn-132 beams by using GEANT4, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B (Apr 15 2015)
- Tetraethyl ammonium hydroxide (TEAH) as etchant of CR-39 for the determination of fluence of alpha particles, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B (Apr 15 2014)
- GEANT4 and PHITS simulations of the shielding of neutrons from the Cf-252 source, JOURNAL OF THE KOREAN PHYSICAL SOCIETY (Sep 2014)
- Design study and heat transfer analysis of a neutron converter target for medical radioisotope production, JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY (Feb 2014)
- Polarization of the neutron induced by hadronic weak interactions in the photodisintegration of the deuteron, PHYSICAL REVIEW C (Sep 3 2013)

Others

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