

PARK Il Hung

Professor
Department of Physics



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Key Words Astrophysics; Gamma-ray Burst; Cosmic rays; Space mission; Satellite and Payload

- Research Area**
- Astrophysics: Gamma Ray Bursts with a series of UFFO space missions
 - Astroparticle Physics: Cosmic Ray Experiments with NASA's CREAM at ISS and antarctica, JEM-EUSO UHECR space missions. and TA UHECR ground telescope array
 - Space Science: Extreme Lightning from space with Russian satellites payloads
 - Space Semiconductor Technology: MEMS, next-generation photo-sensors, electronics, etc.

- Education**
- 1989.10 PhD Rutgers University, New Jersey, USA
 - 1985.02 MSc Korea University
 - 1980.09 BSc Korea University

- Experience**
- 2002-2012 Assistant, Associated, Full professor at Ewha Womans University
 - 2000-2002 Contract Full-time Instructor at Seoul National University
 - 1995-2002 Invited professor at Kyungpook National University
 - 1989-1995 Scientist at SSCL, Researcher at Ohio State University, Senior Research Associate at DESY, Germany

- Position**
- 2012-present Professor at Sungkyunkwan University
 - 2014-present Director of Institute for Science and Technology in Space
 - 2006-2015 Director of Research Institute of MEMS Space Telescope

- Selected Publication**
- Experimental Evidence for the Non-Abelian Nature of QCD. I.H. Park et al., Phys.Rev.Lett. 62,1713(1989)
 - Discrepant hardening observed in cosmic ray elemental spectra, H.S. Ahn et al., Astrophysical Journal Letter, 714,89(2010)
 - Ultra-Fast Flash Observatory (UFFO) for Observation of Early Photons from Gamma Ray Bursts, I.H. Park et al., New Journal of Physics, 15,023031(2013)
 - Measurement of Alpha-s from jet Rates in Deep Inelastic Scattering at HERA. M. Derrick et al., Phys. Lett. B363, 201-216(1995)
 - Patterning by controlled cracking, Nature 485,221-224,
 - Slewing Mirror Telescope optics for the early observation of UV/optical photons from Gamma-Ray Bursts, S.Jeong et al., Optics Express, 21,2,2263(2013)
 - Obscura telescope with a MEMS micromirror array for space observation of transient luminous phenomena or fast-moving objects, J. H. Park et al., Optics Express, 16,25,20249(2008)
 - Measurements of the Relative Abundances of High-energy Cosmic-ray Nuclei in the TeV/Nucleon Region, H.S. Ahn et al., Astrophysical Journal, 751,1400(2010)

- Others**
- PI of UFFO space mission and MTEL payload onboard RELEC spacecraft; National PI of ISS-CREAM, CREAM, and JEM-EUSO space projects, and Telescope Array ground UHECR experiment