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Associate Professor
Department of Physics



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Key Words Superconductivity, heavy fermion, quantum phase transition, strongly correlated systems

Research Area Superconductivity & novel quantum phases that emerge near $T=0$ K

Education

- 2003 PhD University of Illinois at Urbana-Champaign
- 1996 MSc Sungkyunkwan University
- 1994 BSc Sungkyunkwan University

Experience

- 2005-2008 J. R. Oppenheimer Postdoctoral Fellow (LANL)
- 2003-2005 Postdoctoral Research Associate (LANL)
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Position

- Director Center for Quantum Materials and Superconductivity
- Editorial board Journal of Korean Physical Society
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Selected Publication

- Controlling superconductivity by tunable quantum critical points, *Nat. Comm.* 6, 6433 (2015).
- Disorder in Quantum Critical Superconductors, *Nat. Phys.* 10, 120 (2014).
- Textured superconducting state in the heavy fermion CeRhIn5, *Phys. Rev. Lett.* 108, 077003 (2012).
- Isotropic quantum scattering and unconventional superconductivity, *Nature* 456, 366 (2008).
- Probing the nodal gap in the pressure-induced heavy fermion superconductor CeRhIn5, *Phys. Rev. Lett.* 101, 177002 (2008).
- Electronic duality in strongly correlated matter, *Proc. Nat. Acad. Sci.* 105, 6825 (2008).
- Hidden magnetism and quantum criticality in the heavy fermion superconductor CeRhIn5, *Nature* 440, 65 (2006).
- Anomalous Pressure Dependence of Kadowaki-Woods ratio and crystal field effects in mixed-valence YbInCu4, *Phys. Rev. Lett.* 96, 046405 (2006).

Others

- 2011 SKKU Young Fellow
- 2009 Bessemer Young Science Fellow (POSCO)