

Kihyeon Cho

Address

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Education

August 1991 ~ May 1996

Ph.D. in Physics, University of Colorado, Boulder, Colorado, USA
Thesis: D_0 decays as a probe of CP violation and decay mechanism
Adviser: Patricia Rankin

March 1985 ~ February 1987

M.S. in Physics, Yonsei University, Seoul, Korea
Thesis: Baryon magnetic moment

March 1981 ~ February 1985

B.S. in Physics, Yonsei University, Seoul, Korea

Professional experience

March 2017 ~ present

Professor, UST (University of Science and Technology), Daejeon, Korea

June 2013 ~ June 2014 (CDF/Geant4)

Visiting Scholar, Fermilab, Batavia, Illinois, USA

September 2007 ~ present (CDF/Belle/Belle II/Geant4)

Adjunct Professor of Physics, KAIST, Daejeon, Korea

May 2006 ~ present (CDF/Belle/Belle II/Geant4)

Principal Researcher, National Institute of Supercomputing and Networking
KISTI, Daejeon, Korea

June 2001 ~ April 2006 (CDF/CMS)

Visiting Professor, Center for High Energy Physics
Kyungpook National University, Daegu, Korea

October 1996 ~ May 2001 (FOCUS/BTeV)

Post-doc., Department of Physics and Astronomy
University of Tennessee, Knoxville, Tennessee, USA

September 1992 ~ September 1995 (CLEO)

Visiting fellow, Wilson Laboratory
Cornell University, Ithaca, New York, USA

Awards

May 2012	Outstanding Research Award, KISTI, Korea
December 2011	Ministry of Education, Science and Technology Award, Korea
May 2010	Outstanding Research Award, KISTI, Korea
May 2009	Outstanding Research Award, KISTI, Korea
October 1994	William D. Walther, Jr. Award, Dept. of Physics, U. of Colorado, USA

Activities

October 2015 ~ present	Steering committee, RAON user's council
September 2015 ~ present	Leader, Dark matter research cluster in Korea
January 2013 ~ present	Korea contact person, Beam simulation project @FKPPL (France-Korea Particle Physics Laboratory)
October 2010 ~ December 2012	Editor, ISRN HEP Journal
January 2009 ~ February 2014	Chair, Belle II Data Handling Working Group
October 2001 ~ present	Member, KPS (Korean Physical Society)
July 1992 ~ present	Member, APS (American Physical Society)

Summary of research experience

P.I. of several projects on High Energy Physics, Grid, Networking, e-Science and Geant4 in Korea for more than 15 years. A leader of dark matter research cluster supported by National Council of Science and Technology in Korea since 2015. Work on flavor physics and recently dark matter at CLEO, FOCUS, BTeV, CMS, CDF, Belle/Belle II, etc. for more than 30 years.

List of publications (selected from more than 860 publications)

1. K. Cho, e-Science Paradigm for Astro-particle Physics at KISTI, JASS 31, 63 (2016).
2. K. Cho, Computational Science and the Search for Dark Matter, New Physics: Sae Mulli, 66, 8, 950 (2016).
3. J. Kim and K. Cho, A Study on the Optimization of Finite Volume Effects of B_K in Lattice QCD by Using the CUDA, JKPS, 67, 307 (2015).
4. A.J. Bevan, K. Cho et. al, The Physics of the B Factories, Eur.Phys.J. C74, 3026 (2014).
5. B. Pal, K. Cho, et. al, Observation of the decay B₀^s→K₀⁰bar, Phys.Rev.Lett. 116, no.16, 161801 (2016).
6. S.B. yang, K. Cho, et. al, First Observation of Doubly Cabibbo-Suppressed Decay of a Charmed Baryon: $\Lambda^+c \rightarrow pK^+\pi^-$, Phys.Rev.Lett. 117, 011801 (2016).
7. T. Aaltonen, K. Cho, et. al, Search for Resonances Decaying to Top and Bottom Quarks with the CDF Experiment. Phys.Rev.Lett. 115, 061801 (2015).
8. K. Cho and S.-h. Nam, Right-handed current contributions in B→K π decays, Phy.Rev.D, 88, 035012 (2013).