EUNIL WON

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Personal information	Current position: Professor of physics, Korea University Sex: male Marital status: married, 3 children Email: eunil@hep.korea.ac.kr Personal web site: http://particle.korea.ac.kr Lab web site: http://hep.korea.ac.kr	
Education	 Ph.D in particle physics, University of Rochester, NY USA, 1997 under the supervision of Thomas Ferbel, with the title of thesis <i>Top-quark production in multi-jet final states</i> M.A. in particle physics, University of Rochester, NY, 1995 B.S. in physics, Korea University, Seoul Korea, 1992 	
Employment	 2004 - Now: Professor, Korea University (2004-2007: Assistant, 2007-2013: Associate, 2013 - Now: Professor of Physics) 2014 - 2015: Guest Scientist of CAPP/IBS at KAIST 2007 - 2008: Sabbatical leave at Fermilab in US as an international fellow 2002 - 2004: Research Associate, Harvard University 2000 - 2002: Postdoctoral fellow, BK21 Physics division, Seoul National University 1999 - 2000: Postdoctoral fellow, KEK 1997 - 1999: Postdoctoral fellow, Research Institute for Basic Sciences, Seoul National University (military service) 	
Professional Services	 2016 - 2018: The deputy head of the 2014 - Now: Korean ILC task force 2012 - Now: Korean Detector Techn Accelerators and Detectors 2012 - 2013: Team leader for the function of the functi	e Science College, Korea University team leader nology Develop convenor for Asia Forum for damental science case study utilizing RISP/IBS Board Chair nmittee member mmissioner manager
Refereeship	 Physical Review Letters/Physical R J. of Instrumentation 	Leview D

• J. of High Energy Physics

Academic Honors	2008: Fermilab International Fellowship 1993: Fellowship from Korea Foundation for Advanced Studies (http://www.kfas.or.kr) 1992: Valedictorian of Korea University 1990 - 1992 : Baek Un Fellowship (Department of Physics, Korea University)
Research Interests	I am generally interested in experimental study of the CP violation in B and D meson systems. To carry it out, I have been working on the Belle experiment that is located in KEK/Japan from 1997. My group published $\mathcal{O}(10)$ PRL/PRD journal papers as 1st or corresponding authors in last 10 years and one of them is a half-theoretical. This project is going to be upgraded to collect 50 times more data to address the question of CP violation even further. My group is responsible for the implementation of a 3-dimensional tracking system in the level one trigger stage where hugh FPGA based computations are required. This project is to be finished in the year of 2016 when the drift chamber for the Belle II experiment is ready to roll in.
	As the Belle experiment was running stable, I got interested in experimental cosmology. I am currently working on a ground based telescope project called GroundBird to detect <i>B</i> -mode of the CMB polarization, which can be a smoking gun level discovery of the inflation model of our universe. This project happened also to be located in KEK/Japan. Our group is working on the focal plane optics, a small R&D on the superconducting film based resonator (MKID: Microwave Kinetic Inductance Detector) for the photon detection, and the readout electronics in the frequency domain.
	My hardware experience includes FPGA programming, analog/digital microelectronics (or ASIC), DAQ system, and superconducting thin film resonator development.
Major Publications	 Phys. Rev. Lett. 112, 111801 (2014), Observation of D⁰ - D 0⁰ mixing in e⁺e⁻ collisions, E. Won (corresponding), for the Belle collaboration. Journal of High Energy Physics, 02 (2013) 098, Search for CP Violation in the Decay D⁺ to K_SK⁺, E. Won (corresponding), for the Belle collaboration. Phys. Rev. Lett. 109, 021601 (2012), Evidence for CP Violation in the Decay D⁺ to K_Sπ⁺, E. Won (corresponding), for the Belle collaboration. Phys. Rev. Lett. 109, 021601 (2011), Effect of nuclear interactions of neutral kaons on CP asymmetry measurements, E. Won (corresponding), B. R. Ko, B. Golob, P. Pakhlov. Phys. Rev. Lett. 107, 221801 (2011), Observation of D⁺ → K⁺ η^(r) and Search for CP Violation in D⁺ → π⁺ η^(r) Decays, E. Won (1st author) for the Belle collaboration. Phys. Rev. Lett. 106, 211801 (2011), Search for CP Violation in the Decays D⁰ to K⁰_S P⁰, E. Won (corresponding) for the Belle collaboration. Phys. Rev. Lett. 106, 211801 (2011), Measurement of the decay B⁰ → πℓν and determination of V_{ub} , E. Won (corresponding) for the Belle collaboration. Phys. Rev. Lett. 104, 181602 (2010), Search for CP violation in the decays D⁰/_S → K⁰_Sπ⁺ and D⁺_S → K⁰_SK⁺, E. Won (corresponding) for the Belle collaboration. Phys. Rev. Lett. 104, 181602 (2010), Search for CP violation in the decays D⁺/_S → K⁰_Sπ⁺ and D⁺/_S → K⁰_SK⁺, E. Won (corresponding) for the Belle collaboration. Phys. Rev. D. 80, 111103 (2009), Measurement of D⁺ → K⁰_SK⁺ and D⁺_S → K⁰_SM⁺ → K⁰_SK⁺ and D⁺_S → K⁰_SM⁺ branching ratios, E. Won (1st author), for the Belle collaboration. Phys. Rev. Lett. 102, 221802 (2009), Observation of the Doubly Cabibbo-Suppressed Decay D⁺_S → K⁺K⁺π⁻, E. Won (corresponding) for the Belle collaboration.

- Nuclear Science, IEEE Transactions on Volume 55, Issue 1, Feb. 2008 Page(s):122 125, Upgrade of the Level 1 Global Trigger System in the the Belle Experiment, E. Won (1st author).
- Jour. of Comp. Physics, 227/5, 2970 (2008), Precise Numerical Solutions of Potential Problems Using Crank-Nicolson Method, E. Won (corresponding).
- Nucl. Inst. and Meth. A 581, 816 (2007), A Hardware Implementation of Artificial Neural Network Using Field Programmable Gate Arrays, E. Won (single author).
- Other papers can be found from http://inspirehep.net/author/E.Won.1 (866 entries as of 2015).