

CURRICULUM VITAE

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Manki Kim

Center for Axion and Precision Physics Research of the Institute for Basic Science

RESEARCH INTERESTS

Theoretical high energy physics, especially BSM and Formal Theory.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Feb 2011 - Feb 2016

Summa Cum Laude

Double major in Department of Physics and Department of Mathematical Science.

Kyungpook Science High School

Mar 2009 - Feb 2011

Early graduation.

RESEARCH EXPERIENCE

CAPP, IBS, Daejeon, South Korea

March 2016 - Present

KAIST, Daejeon, South Korea

August 2014 - February 2016

Supervisor : Prof. Seung Joon Lee, Department of Physics, KAIST.*

Particle Physics Phenomenology

CERN, Geneva, Switzerland

June 2014 - August 2014

Supervisor : Dr. Phillip Harris Coleman, CMS, CERN.

As a Summer Student.

KAIST, Daejeon, South Korea

January 2014 - June 2014

Supervisor : Prof. Myung Joon Han, Department of Physics, KAIST.

Computational Condensed Matter Physics.

* Moved to Department of Physics, Korea University, Seoul, South Korea.

PUBLICATION

- [1] M. Kim, S. J. Lee and A. Parolini, "WIMP Dark Matter in Composite Higgs Models and the Dilaton Portal," [arXiv:1602.05590](https://arxiv.org/abs/1602.05590) [hep-ph].

HONORS

- The 2016 KAIST Creativity and Challenge Awards** Feb 2016
- Invitation to the 2015 Nobel Prize Award Ceremony and Nobel Banquet** Dec 2015
- On behalf of KAIST
- Excellent Award, 2015 KAIST Winter-Fall Undergraduate Research Program** Aug 2015
- SO(6)/SO(5) Composite Higgs Boson and Dark Matter under Spontaneously Broken Scale Invariance.
 - Research Grant : About \$ 4.2K
- Honor Student** Sep 2013
- GPA higher than 3.7/4.3. Honor students can take graduate courses.
- KAIST Presidential Fellowship** July 2013
- Selected students who show academic excellence and leadership.
- National Science and Engineering Scholarship** Feb 2011 - Feb 2015
- Total amount of tuition fee.

TEACHINGS

- Calculus 2, TA, KAIST. Fall 2015
- Calculus 1, TA, KAIST. Spring 2015
- Calculus 1, TA, KAIST. Spring 2014
- Calculus 2, Tutor, KAIST. Fall 2012
- Advanced Physics 1, Tutor, KAIST. Spring 2012

EXTRACURRICULAR ACTIVITIES

- Student Council, One Step** Dec, 2012 - Dec, 2013
- Secretariat
- KAIST Integration of Natual Science, the Natural Science Club.** Jul 2012 - Dec 2014
- Official science club supported by KAIST college of natural sciences
 - Having regular seminars

COMPUTER SKILLS

- Programming Languages : C, Python
- Tools for High Energy Physics : ROOT, Calchep, Lanhep
- Mathematical Tool : Mathematica
- ETC : Ubuntu, LaTeX