

Curriculum Vitae

Hyungchul Kim

Department of Physics, POSTECH, Pohang, Korea

Personal Information

- Date of birth February 24, 1988
- Nationality Republic of Korea
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Education & Employment

- Mar.2016-Present Postdoctoral Researcher, Theoretical Particle Physics Lab, POSTECH, Korea
- Feb.2016 Ph. D. in Physics, POSTECH, Korea
- Advisor : Jaemo Park
- Feb.2010 Bachelor of Science in Physics, POSTECH, Korea

Research Interests

- Non-perturbative aspects of superstring/M-theory and supersymmetric gauge theory

Experiences

- Sep.2011-Dec.2011 TA, Statistical Mechanics (PHYS512), POSTECH
- Sep.2010-Dec.2010 TA, Electronics&Instrumentation Lab (PHYS231), POSTECH
- Mar.2010-Jun.2010 TA, General Physics Lab (PHYS103), POSTECH

Fellowships & Awards

Fellowships

- National Junior Research Fellowship, National Research Foundation of Korea (2013-2015, ~\$60,000/year)
- National Science & Technology Scholarship (2006–2009, ~\$5,000/year)

Awards

- Oral presentation Award, 2013 Young researchers' Workshop, Center for Quantum Spacetime (CQUeST) (2013)
- Oral presentation Award, 2012 Young researchers' Workshop, CQUeST (2012)
- Chang-Lim Prize (to the best student in graduate coursework), POSTECH (2010)
- Best Teaching Assistant Award, Dept. of Physics, POSTECH (2010)

Talks

1. "Hilbert series for 3d N=2 theories", KIAS-YITP Joint Workshop 2015, Korea Institute for Advanced Study (KIAS), Korea (Sep. 2015)
2. "Duality of 3d non Chern-Simons theory with tensor matter", 2013 Young Researchers' Workshop, CQUeST, Korea (May 2013)

3. “Duality of three dimensional supersymmetric gauge theory”, 2012 Young Researchers’ Workshop, CQUeST, Korea (May 2012)
4. “Dualities for N=2 3d Chern-Simons Theories with Tensor Matter”, Gong Show, Asian Winter School on Strings, Particles and Cosmology Programs, Kusatsu, Gunma, Japan (Jan. 2012)

Publications

1. Amihay Hanany, Chiung Hwang, Hyungchul Kim, Jaemo Park and Rak-Kyeong Seong, “*Hilbert Series for Theories with Aharony duals*”, Journal of High Energy Physics (JHEP) 1511 (2015) 132, arXiv:1505.02160 [hep-th]
2. Hyungchul Kim and Jaemo Park, “*Aharony Dualities for 3d Theories with Adjoint Matter*”, JHEP 1306 (2013) 106, arXiv:1302.3645 [hep-th]
3. Anton Kapustin, Hyungchul Kim and Jaemo Park, “*Dualities for 3d Theories with Tensor Matter*”, JHEP 1112 (2011) 087, arXiv:1110.2547 [hep-th]
4. Chiung Hwang, Hyungchul Kim, Kyung-Jae Park and Jaemo Park, “*Index computation for 3d Chern-Simons matter theory: test of Seiberg-like duality*”, JHEP 1109 (2011) 037, arXiv:1107.4942 [hep-th]

Reference

- Prof. Jaemo Park
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