Curriculum Vitae of Sangwook Lee

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Education

Ph. D in Mathematics, 2013
Seoul National University
Title: Homotopy cyclic A-infinity algebras, potentials and related cohomology theories
(Thesis Advisor: Cheol-hyun Cho)

M.A. in Mathematics, 2007
Seoul National University

B.S. in Mathematics, 2004
Seoul National University

Employment

- Postdoctoral research fellow, Center for Geometry and Physics in Institute for Basic Science, 2013-

Research Interests

Symplectic geometry, homological mirror symmetry;
Lagrangian Floer theory, homotopy algebra, matrix factorizations

Honors and Awards

- Best Ph.D thesis award, College of Natural Sciences, SNU, 2013.

- Best TA award, Department of Mathematical Sciences, SNU, 2006.

Invited talks

- "Examples of matrix factorizations from SYZ", Small Workshop of Mirror Symmetry in Chiba University, 2013.

- "Notes on Kontsevich-Soibelman's theorem about cyclic A_∞-algebras", The Korean Mathematical Society Spring Meeting, 2011.

- "Homotopy cyclic A_∞-algebras and negative cyclic cohomology", Joint Meeting of Korean Mathematical Society and American Mathematical Society, 2009.

- "Potentials of homotopy cyclic A-infinity algebras", The 6th Hokkaido University and Seoul National University Symposium on Mathematics - Geometry and Topology, 2008.

Publications

- Examples of matrix factorizations from SYZ, *SIGMA 8 (2012), 053, 24 pages*, jointly with Cheol-hyun Cho and Hansol Hong.

- Potentials of homotopy cyclic A1-algebras, *Homology, Homotopy and Applications vol.14(1), 2012, pp.203-220*, jointly with Cheol-hyun Cho.

- Notes on Kontsevich-Soibelman's theorem about cyclic A_∞-algebras, *International Mathematics Research Notices 2011, no. 14, pp.3095-3140*, jointly with Cheol-hyun Cho.