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## Strings and AdS/CFT at finite density

Goykhman, M.

### Citation

Goykhman, M. (2014, June 24). *Strings and AdS/CFT at finite density*. *Casimir PhD Series*. Retrieved from <https://hdl.handle.net/1887/26886>

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**Author:** Goykhman, Mikhail

**Title:** Strings and AdS/CFT at finite density

**Issue Date:** 2014-06-24

# List of Publications

1. M. Goykhman and E. Ivanov, “Worldsheet Supersymmetry of Pohlmeyer-Reduced  $AdS_n x S^n$  Superstrings,” JHEP **1109** (2011) 078 [arXiv:1104.0706 [hep-th]].
2. M. Goykhman, A. Parnachev and J. Zaanen, “Fluctuations in finite density holographic quantum liquids,” JHEP **1210** (2012) 045 [arXiv:1204.6232 [hep-th]].
3. M. Goykhman, E. Ivanov and S. Sidorov, “Super Landau Models on Odd Cosets,” Phys. Rev. D **87** (2013) 025026 [arXiv:1208.3418 [hep-th]].
4. M. Goykhman and A. Parnachev, “S-parameter, Technimesons, and Phase Transitions in Holographic Tachyon DBI Models,” Phys. Rev. D **87** (2013) 026007 [arXiv:1211.0482 [hep-th]].
5. M. Goykhman and A. Parnachev, “Stringy holography at finite density,” Nucl. Phys. B **874** (2013) 115 [arXiv:1304.4496 [hep-th]].
6. R. A. Davison, M. Goykhman and A. Parnachev, “AdS/CFT and Landau Fermi liquids,” *to appear in JHEP* [arXiv:1312.0463 [hep-th]].



# Curriculum Vitæ

During the years 2005-2009 I was a bachelor student at the Department of General and Applied Physics of the Moscow Institute of Physics and Technology (MIPT) in Dolgoprudny, Russia. I continued at the MIPT as a master student from 2009 till 2011. During the last three years of my stay at MIPT I spent a significant period of time at the University Center of the Joint Institute for Nuclear Research in Dubna, the base institute of our high-energy group. My bachelor and master research, dedicated to one- and two-dimensional supersymmetric sigma models, has been done there under the supervision of Prof. Dr. Evgeny Ivanov.

Shortly after my graduation from MIPT I moved to Leiden, The Netherlands to work with Dr. Andrei Parnachev on applications of string theory to strongly coupled systems. I became a PhD student at Lorentz Institute at Leiden University. I benefited a lot from collaboration and discussions with members of the Quantum Matter Theory group.

During my PhD study I attended many schools, including two annual DRSTP schools on high-energy and condensed-matter physics. I gave talks about my work at several schools, seminars and conferences in Russia, Belgium, South Korea, Crete and The Netherlands. After my PhD I will continue to do research, as a postdoc at the University of Chicago.