

# Hyun-Sik Jeong

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## Professional Experience

2021.01 - Present Kavli Institute for Theoretical Sciences, University of Chinese Academy of Sciences

2020.06 - 2020.11 Center for Quantum Spacetime, Sogang University

2020.03 - 2020.05 Gwangju Institute of Science and Technology

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## Education

2015 – 2020 Doctor of Philosophy in Physics, Gwangju Institute of Science and Technology

2010 – 2015 Bachelor of Science in Physics, Kangwon National University

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## Publications

1. **"Thermal diffusivity and butterfly velocity in anisotropic Q-Lattice models",**

**Hyun-Sik Jeong**, Yongjun Ahn, Dujin Ahn, Chao Niu, Wei-Jia Li, Keun-Young Kim, Published in JHEP **01** (2018) 140

2. **"Linear-T resistivity at high temperature",**

**Hyun-Sik Jeong**, Keun-Young Kim, Chao Niu, Published in JHEP **10** (2018) 191

3. **"Complexity of Holographic Superconductors",**

**Hyun-Sik Jeong**, Runqiu Yang, Keun-Young Kim, Chao Niu, Published in JHEP **04** (2019) 146

4. **"Entanglement and Rényi Entropy of Multiple Intervals in TT-Deformed CFT and Holography",**

**Hyun-Sik Jeong**, Keun-Young Kim, Mitsuhiro Nishida, Published in Physical Review D

5. **"Scrambling in Hyperbolic Black Holes: shock waves and pole-skipping",**

Yongjun Ahn, Viktor Jahnke, **Hyun-Sik Jeong**, Keun-Young Kim, Published in JHEP **10** (2019) 257

6. **"Linear-T Resistivity from Low to High Temperature: holographic Q-lattice model",**

Yongjun Ahn, **Hyun-Sik Jeong**, Dujin Ahn, Keun-Young Kim, Published in JHEP **04** (2020) 153

7. **"Reflected Entropy and Entanglement Wedge Cross Section with the First Order Correction"**,

**Hyun-Sik Jeong**, Keun-Young Kim, Mitsuhiro Nishida, Published in JHEP **12** (2019) 170

8. **"Holographic Spectral Functions with Momentum Relaxation"**,

**Hyun-Sik Jeong**, Keun-Young Kim, Yunseok Seo, Sang-Jin Sin, Shang-Yu Wu, Published in Physical Review D

9. **"Pole-skipping of scalar and vector fields in hyperbolic space: conformal blocks and holography"**,

Yongjun Ahn, Viktor Jahnke, **Hyun-Sik Jeong**, Keun-Young Kim, Kyung-Sun Lee, and Mitsuhiro, Published in JHEP **09** (2020) 111

10. **"Classifying pole-skipping points"**,

Yongjun Ahn, Viktor Jahnke, **Hyun-Sik Jeong**, Keun-Young Kim, Kyung-Sun Lee, and Mitsuhiro Nishida, Accepted in JHEP