



李斯文

理论物理，讲师/硕士生导师

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#### 教育背景

复旦大学博士后（2016 - 2018）  
中国科学技术大学理学博士（2010 - 2016）  
南昌大学理学学士（2006 - 2010）

#### 研究领域

AdS/CFT correspondence, gauge-gravity duality, string theory and nuclear physics

I am currently interested in the topics about AdS/CFT correspondence, applications of string theory and gauge-gravity duality in nuclear physics, to study the quantum effect of gravity and understand the various phenomena in QCD holographically.

#### 代表性成果

- 1) **Si-wen Li**, The theta-dependent Yang-Mills theory at finite temperature in a holographic description, Chinese Physics C (SCI, Q1).
- 2) **Si-wen Li**, Holographic description of heavy-flavored baryonic matter decay involving glueball, Phys.Rev. D99 (2019) no.4, 046013, (SCI, Q1).
- 3) Zi-Yong Ge; Yu-Ran Zhang; Tao Liu; **Si-Wen Li**; Heng Fan; Franco Nori, Topological band theory for non-Hermitian systems from the Dirac equation, Phys.Rev. B100 (2019) no.5, 054105 (SCI, Q1) .
- 4) **Si-wen Li**, The interaction of glueball and heavy-light flavoured meson in holographic QCD, [arXiv:1809.10379].
- 5) Wenhe Cai; **Si-wen Li**, Holographic three flavor baryon in the Witten–Sakai–Sugimoto model with the D0–D4 background, Eur.Phys.J. C78 (2018) no.6, 446 (SCI, Q1) .

- 6) **Si-wen Li**; Shu Lin, D-instantons in Real Time Dynamics, Phys.Rev. D98 (2018) no.6, 066002 (SCI, Q1) .
  - 7) **Si-wen Li**, Holographic heavy-baryons in the Witten-Sakai-Sugimoto model with the D0-D4 background, Phys.Rev. D96 (2017) no.10, 106018 (SCI, Q1) .
  - 8) Wenhe Cai; Kang-le Li; **Si-wen Li**, Electromagnetic instability and Schwinger effect in holographic QCD with a topological charge, Eur.Phys.J. C79 (2019) no.11, 904 (SCI, Q1) .
  - 9) Wenhe Cai; **Si-wen Li**, Sound waves in the compactified D0-D4 brane system, Phys.Rev. D94 (2016) no.6, 066012 (SCI, Q1) .
  - 10) **Si-wen Li**; Tuo Jia, Dynamically flavored description of holographic QCD in the presence of a magnetic field, Phys.Rev. D96 (2017) no.6, 066032 (SCI, Q1) .
  - 11) **Si-wen Li**; Tuo Jia, Three-body force for baryons from the D0-D4/D8 brane matrix model, Phys.Rev. D93 (2016) no.6, 065051 (SCI, Q1) .
  - 12) **Si-wen Li**, Glueball–baryon interactions in holographic QCD, Phys.Lett. B773 (2017) 142-149 (SCI, Q2) .
  - 13) **Si-wen Li**; Tuo Jia, Matrix model and Holographic Baryons in the D0-D4 background, Phys.Rev. D92 (2015) no.4, 046007 (SCI, Q1) .
- Si-wen Li**; Andreas Schmitt; Qun Wang, From holography towards real-world nuclear matter, Phys.Rev. D92 (2015) no.2, 026006 (SCI, Q1)

代表性项目

(1) 国家自然科学基金重点项目, 11535012, 中高能重离子碰撞的手征电磁效应和手征涡旋效应, 2016.1-2020.12, 280 万, 在研, 参加

社会兼职

Journal of high energy physics, 审稿人