

Prof Shuang-Yong Zhou

Quantum Field Theory, Gravity and Particle Physics

Telephone No. 0551-63607211

Email Address zhoushy@ustc.edu.cn



Curriculum Vitae

2012	PhD, University of Nottingham, UK
2012--2014	Postdoctoral Research Fellow, SISSA, Italy
2014--2016	Postdoctoral Scholar, Case Western Reserve University, USA
2016--2017	Research Associate, Imperial College London, UK
2017--	Professor, University of Science and Technology of China

Research

My research lies at the intersection of quantum field theory, gravity and particle physics. Currently, I am interested in extracting physics from the fundamental principles of quantum field theory or the S-matrix theory, and apply them to constrain gravitational and particle physics models. I am also interested in non-topological solitons in field theories and their roles in the early universe, as well as testing General Relativity in the strong gravity regimes with gravitational waves and numerical relativity.

Current Research Interests

- Quantum field theory and S-matrix bootstrap
- Effective field theories in gravitational and particle physics
- Non-topological solitons, early universe phase transitions and gravitational waves

See [the full list of my publications from inSPIRE-HEP](#)