RTG 2522 Kickoff



Report of Contributions

RTG 2522 Opening

Contribution ID: 1

Type: not specified

RTG 2522 Opening

Tuesday, 25 February 2020 10:00 (30 minutes)

Presenter: GIES, Holger (TPI, FSU Jena)

IMR Consistency Tests on Gravita ...

Contribution ID: 2

Type: not specified

IMR Consistency Tests on Gravitational Signals from the second observing run of LIGO and Virgo

Tuesday, 25 February 2020 10:30 (30 minutes)

Presenter: BRESCHI, Matteo (TPI Jena)

Contribution ID: 3

Type: not specified

Poor foundations of a heated debate; semi-classical black hole evaporation

Tuesday, 25 February 2020 11:30 (30 minutes)

Back in the 70s Stephen Hawking suggested from semi-classical gravity arguments (i.e. coupling classical' general relativity to a quantum field theory as a matter model) that black holes can evaporate in a way which leads to non-reversible time evolution. This suggestion has proved

to be controversial, especially among those working in quantum gravity. As such, this scenario is often referred to as the information loss paradox. We note that the semi-classical foundations on which thisparadox' is built, are still poorly understood. In this talk I will highlight some open questions concerning semi-classical black hole evaporation. Hopefully this will allow us to settle if black holes truly evaporate within the semi-classical theory, such that we can finally address potential implications of this on quantum gravity theories from

firmer ground, whilst expanding our understanding of quantum fields on curved space-times and semi-classical gravity in the process.

Presenter: JANSSEN, Daan (ITP Leipzig)

Adaptive Mesh Refinement for Gr ...

Contribution ID: 4

Type: not specified

Adaptive Mesh Refinement for Gravitational Wave Collapse

Tuesday, 25 February 2020 12:00 (30 minutes)

Presenter: RENKHOFF, Sarah (TPI Jena)

Lecture: The Operator Product Ex...

Contribution ID: 5

Type: not specified

Lecture: The Operator Product Expansion as a structural property of Quantum Field Theories

Tuesday, 25 February 2020 14:30 (1 hour)

Presenter: FRÖB, Markus

Key note talk:String-localized QED

Contribution ID: 6

Type: not specified

Key note talk:String-localized QED

Tuesday, 25 February 2020 16:30 (1h 30m)

Presenter: REHREN, Karl-Henning (Göttingen U)

Glancing at energy inequalities in ...

Contribution ID: 7

Type: not specified

Glancing at energy inequalities in integrable quantum field theories

Tuesday, 25 February 2020 18:00 (30 minutes)

Presenter: MANDRYSCH, Jan (ITP Leipzig)

Board/Fellow Meeting

Contribution ID: 8

Type: not specified

Board/Fellow Meeting

Tuesday, 25 February 2020 20:00 (30 minutes)

Key note talk: The Weyl anomaly...

Contribution ID: 9

Type: not specified

Key note talk: The Weyl anomaly and some of its uses

Wednesday, 26 February 2020 09:00 (1h 30m)

Presenter: THEISEN, Stefan (AEI Potsdam)

Project talk

Contribution ID: 10

Type: not specified

Project talk

Lecture: Introduction to spin foam ...

Contribution ID: 11

Type: not specified

Lecture: Introduction to spin foams and background independent renormalization

Wednesday, 26 February 2020 11:00 (1 hour)

Presenter: STEINHAUS, Sebastian (TPI, FSU Jena)

Asymptotically safe QED

Contribution ID: 12

Type: not specified

Asymptotically safe QED

Wednesday, 26 February 2020 12:00 (30 minutes)

Presenter: ZIEBELL, Jobst (TPI Jena)

Transmission Amplitude through a ...

Contribution ID: 13

Type: not specified

Transmission Amplitude through a Coulomb-blockaded Majorana Wire

Wednesday, 26 February 2020 14:30 (30 minutes)

Presenter: THAMM, Matthias (ITP Leipzig)

A New Phase Transition and Chira...

Contribution ID: 14

Type: not specified

A New Phase Transition and Chiral Symmetry in 1+2D Thirring Models

Wednesday, 26 February 2020 15:00 (30 minutes)

Presenter: LENZ, Julian (TPI Jena)

Hydrodynamics, Spontaneously B ...

Contribution ID: 15

Type: not specified

Hydrodynamics, Spontaneously Broken Symmetries, Holography, and New Results

Wednesday, 26 February 2020 15:30 (30 minutes)

Presenter: GRAY, Sean (TPI Jena)

Quantum Corrections to the Ther ...

Contribution ID: 16

Type: not specified

Quantum Corrections to the Thermal Nature of Black Holes

Tuesday, 25 February 2020 15:30 (30 minutes)

Presenter: WÖLFL, Katharina (TPI Jena)