

Physik-Combo

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, 27 March 2023 10:25 (5 minutes)

Contribution ID: 2

Type: **not specified**

Bound states in strong interaction physics I

Monday, 27 March 2023 10:30 (1 hour)

Presenter: HUBER, Markus

Contribution ID: 3

Type: **not specified**

Q&A

Monday, 27 March 2023 11:30 (15 minutes)

Contribution ID: 4

Type: **not specified**

Gravity as an effective field theory I

Monday, 27 March 2023 14:00 (1 hour)

Presenter: HELD, Aaron

Contribution ID: 5

Type: **not specified**

Q&A

Monday, 27 March 2023 15:00 (15 minutes)

Contribution ID: 6

Type: **not specified**

Stochastic gravitational wave background from supernovae in massive scalar-tensor gravity

Monday, 27 March 2023 16:00 (30 minutes)

Presenter: ROSCA-MEAD, Roxana

Contribution ID: 7

Type: **not specified**

Can we destroy a Black Hole via Quantum Fluctuations?

Monday, 27 March 2023 16:30 (30 minutes)

Presenter: IULIANO, Claudio

Contribution ID: 8

Type: **not specified**

Bound states in strong interaction physics II

Tuesday, 28 March 2023 09:00 (1 hour)

Presenter: HUBER, Markus

Contribution ID: 9

Type: **not specified**

Q&A

Tuesday, 28 March 2023 10:00 (15 minutes)

Contribution ID: 10

Type: **not specified**

Analytical Modelling and Numerical Relativity Simulations of Black Hole - Neutron Star mergers

Tuesday, 28 March 2023 10:45 (30 minutes)

Presenter: GONZALEZ, Alejandra

Contribution ID: 11

Type: **not specified**

Geometry of charged rotating discs of dust in Einstein-Maxwell theory

Tuesday, 28 March 2023 11:15 (30 minutes)

Presenter: RUMLER, David

Contribution ID: 12

Type: **not specified**

Correlated noise from stochastic gravitational waves

Tuesday, 28 March 2023 11:45 (30 minutes)

Presenter: VAN MANEN, Linda

Contribution ID: 13

Type: **not specified**

Gravity as an effective field theory II

Tuesday, 28 March 2023 14:00 (1 hour)

Presenter: HELD, Aaron

Contribution ID: 14

Type: **not specified**

Q&A

Tuesday, 28 March 2023 15:00 (15 minutes)

Contribution ID: 15

Type: **not specified**

You spin right 'round baby, right 'round

Tuesday, 28 March 2023 15:15 (30 minutes)

I lightly discuss a few facts about the geometry of Minkowsky 2-surfaces using a 2-spinor formalism, using complexified quaternions as intermediaries.

Presenter: SIMÃO, José

Contribution ID: 17

Type: **not specified**

Fellow & PI meetings

Monday, 27 March 2023 17:40 (1 hour)

Contribution ID: 25

Type: **not specified**

Semiclassical Energy Density of Sine-Gordon Solitons

Monday, 27 March 2023 11:45 (30 minutes)

Classical solutions like Solitons play an important role in quantum field theory, high energy physics and cosmology, such it is worthwhile to investigate them in more detail. I will summarize in this talk the results of my master thesis, in which I investigated the semiclassical energy density of solitons in the 1 plus 1 dimensional Sine-Gordon model. In the first part of the talk, I will briefly recapitulate the key methods I used, such as Hadamard point-split renormalization. I will also comment on a subtlety concerning the stress tensor for the 1 plus 1 dimensional scalar field case. The second part follows then with a summary of the corresponding results I gathered for the semiclassical energy density.

Presenter: SCHLESIER, Robert

Contribution ID: 26

Type: **not specified**

Information Theory of Statistical Fields

Monday, 27 March 2023 17:00 (30 minutes)

Presenter: SCHRÖFL, Markus

Contribution ID: 27

Type: **not specified**

Aspects and Future of the RTG

Monday, 27 March 2023 17:30 (10 minutes)

Presenter: GIES, Holger (TPI, FSU Jena)