

Session Program

24-28 Oct 2022

**HIPSTARS 2022 - Workshop on Heavy Ion
Physics and Compact Stars**

Contribution talks

Monday 24 October

10:30

Contribution talks

Session

10:30–10:55

Deciphering flow at SIS energies: A look through the keyhole

Speaker

Tom Reichert

10:55–11:20

Correcting the B_A coalescence factor at GSI-HADES and RHIC-BES energies

Speaker

Mr Apiwit Kittiratpattana

11:20–11:40

Break

11:40–12:05

Microscopic description of beta decay rates of r process nuclei

Speaker

Diana Alvear Terrero

12:05–12:30

Heavy quark diffusion in the hot QCD matter

Speaker

Santosh Kumar Das

12:30

Tuesday 25 October

10:00

Contribution talks

Session

10:00–10:25

Dynamics of the QGP phase at finite baryon density

Speaker

Olga Soloveva

10:25–10:50

Mechanisms for deuteron production in HICs with PHQMD transport approach

Speaker

Gabriele Coci

10:50–11:15

Exploring jet transport coefficients by elastic scattering in the strongly interacting quark-gluon plasma

Speaker

Ilya Grishmanovskii

11:15–11:35

Break

11:35–12:00

Phi meson properties in nuclear matter from dilepton and K^+K^- decays in a transport approach

Speaker

Philipp Gubler

12:00–12:30

Using machine-learning to explore hadron collisions

Speaker

German Sborlini

12:30

Thursday 27 October

10:00

Contribution talks

Session

10:00–10:30

Compact stars and magnetic fields

Speaker

Daryel Manreza

10:30–10:55

Macroscopic Models for Magnetized Compact Stars

Speakers

Adriel Rodriguez, Dr Gretel Quintero Angulo

10:55–11:20

Equations of state of neutron stars using CompOSE

Speaker

Achely Martinez

11:20–11:40

Break

11:40–12:05

CLASS code for numerical cosmological computations

Speaker

Amanda Castillo

12:05–12:30

Stability Analysis of Mixed Stars

Speaker

Carlos Manuel García

12:30

Friday 28 October

10:00

Contribution talks

Session

10:00–10:30 **Equation of state of photons propagating in magnetized vacuum.**

Speaker

Dr Aurora Perez Martinez

10:30–10:55

Bose-Einstein Condensation of a magnetized gas of charged scalar bosons revisited

Speaker

Gretel Quintero

10:55–11:20

Effects of the magnetic field on gravitational waves from spheroidal strange stars

Speaker

Ms Samantha López Pérez

11:20–11:40

Break

11:40–12:05

On the propagation of photons in rotating neutron stars including quantum and gravitational effects.

Speaker

Adrian William Romero Jorge

12:05–12:30

Scalar field mass estimation from the existence of Dynamical Gravastar

Speaker

Duvier Fontanella

12:30