HIPSTARS 2024 - Workshop on Heavy Ion Physics and Compact Stars



Tuesday 29 October 2024 - Friday 1 November 2024 Havana

Scientific Programme

HIPSTARS 2024 - Workshop on Heavy Ion Physics and Compact Stars Tuesday October 29th, 2024 — Program Schedule **14:50 - 15:00**

Welcome to ICIMAF: Introduction to our Workshop

Prof. Dra. Aurora Pérez Martínez

Instituto de Cibernética, Matemática y Física, ICIMAF

15:00 - 15:30

Cluster and hypernuclei production in heavy-ion collisions

Dra. Elena Bratkovskaya

15:30 - 15:50

Transport properties of the strongly interacting quark-gluon plasma

Ilia Grishmanovskii

15:50 - 16:10

Open heavy flavor and quarkonium production in relativistic heavy ion collisions

Jiaxing Zhao

16:10 - 16:20

Coffee Break

16:20 - 16:40

Exploring Dark Photon Production and Kinetic Mixing Constraints in Heavy-Ion Collisions

Adrian William Romero Jorge

16:40 - 17:00

Neutrino oscillations and spontaneous breaking of the Lorentz symmetry.

Israel Hernández Sehara

17:00 - 17:10

Closing

Wednesday October 30th, 2024 — Program Schedule

15:00 - 15:30

How to measure the nuclear equation of state in heavy ion experiements?

Dr. Joerg Aichelin

15:30 - 15:50

Heavy quark mass in QGP

Taesoo Song

15:50 - 16:10

Flow correlations as precision tool to measure the Equation-of-State

Tom Reichert

16:10 - 16:20

Coffee Break

16:20 - 16:40

Resonance suppression during the hadronic stage from the FAIR to the intermediate RHIC energy regime

Amine Chabane

16:40 - 17:00

Deuteron and Cluster Production in Heavy Ion collisions.

Marcus Bleicher

17:00 - 17:10

Closing

Thursday October 31st, 2024 — Program Schedule

15:00 - 15:30

How to find variable sources in low count rate X-ray all-sky surveys

Dr. Thomas Boller

15:30 - 15:50

Study of hypercompact HII regions by astronomical observations

Dr. Isabel Tatiana Rodríguez Esnard

15:50 - 16:10

To be announced

Dr. Duvier Fontanela

16:10 - 16:20

Coffee Break

16:20 - 16:40

Jets induced by chiral currents in the magnetosphere of a rotating black hole.

Eduardo García Reynaldo

16:40 - 17:00

Axial anomaly and breaking of chiral symmetry.

Alejandro Orue León

17:00 - 17:20

New observational constraints on Bose-Einstein condensate stars

Adriel Ernesto Rodríguez Concepción

17:20 - 17:30

Closing

Friday November 1st, 2024 — Program Schedule

15:00 - 15:30

Space-time emergence and machine learning

Dr. Nana Geraldine Cabo Bizet

15:30 - 15:50

On magnetized Bose-Einstein charged scalar condensate stars

Amanda Castillo

15:50 - 16:00

Coffee Break

16:00 - 16:30

Magnetized Strange Stars and Signals of Gravitational Waves

Dr. Daryel Manreza

16:30 - 16:50

Negative magnetoresistance induced by longitudinal photons in Dirac/Weyl semimetals.

Susana Montesinos

16:50 - 17:20

Photon magnetic properties and radiation pressures in nonlinear electrodynamics

Dra. Elizabeth Rodríguez Querts

17:20 - 17:50

To be announced

Dr. Alejandro Cabo

17:50 - 18:00

Closing