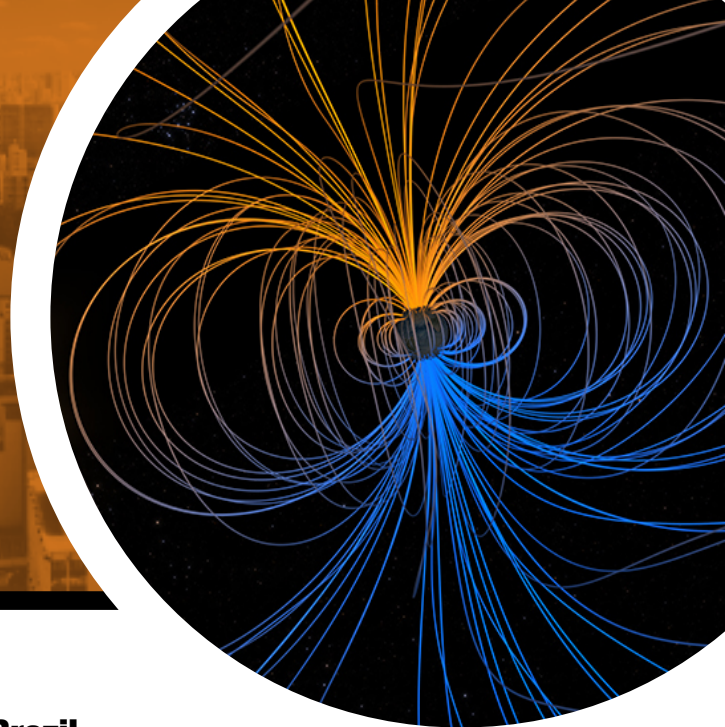




**ICTP  
SAIFR**

International Centre  
for Theoretical Physics  
South American Institute  
for Fundamental Research

# WORKSHOP ON ELECTROMAGNETIC EFFECTS IN STRONGLY INTERACTING MATTER



**October 25-28, 2022**

**at Instituto de Física Teórica - UNESP, São Paulo, Brazil**

## CONFIRMED SPEAKERS

- Alejandro Ayala** (UNAM, Mexico)  
**Daniel Brandenburg** (Brookhaven National Laboratory, USA)  
**David Dudal** (KU Leuven, Belgium)  
**Gergely Endrodi** (Bielefeld U., Germany)  
**Ricardo R. S. Farias** (U. Federal de Santa Maria, Brazil)  
**Efrain Ferrer** (U. of Texas Rio Grande Valley, USA)  
**Eduardo Souza Fraga** (UFRJ, Brazil)  
**Kenji Fukushima** (U. of Tokyo, Japan)  
**Vivan de la Incera** (U. of Texas Rio Grande Valley, USA)  
**Karl Landsteiner** (IFT-UAM/CSIC, Spain)  
**Marcelo Loewe** (Pontificia U. Católica (PUC), Chile)  
**Manuel Malheiro** (I. Tecnológico da Aeronautica, Brazil)  
**Enrique Munoz** (Pontificia U. Católica (PUC), Chile)  
**Jorge Noronha\*** (U. of Illinois Urbana-Champaign, USA)  
**Alfredo Raya** (U. Michoacana de San Nicolás de Hidalgo (IFM-UMSNH), Mexico)  
**Luis Alberto H. Rosas** (U. Autónoma Metropolitana-Iztapalapa, Mexico)  
**Norberto Scoccola** (Comisión Nacional de Energía Atómica, Argentina)  
**Igor Shovkovy** (Arizona State U., USA)  
**Vladimir Skokov** (North Carolina State U., USA)  
**Cristian Villavicencio** (U. del Bio-Bio (UBB) – Chillán, Chile)

\* To be confirmed.

The effects of electromagnetic fields in strongly interacting matter have been the subject of intense activity over the past ten years, involving researchers from different communities such as Heavy-Ion physics, Lattice QCD, Astrophysics, Ads/CFT, Magneto-Hydrodynamics, formal aspects of Quantum Field Theory, among others.

Recent experimental achievements like the measurement of lambda polarization and the results from isobar collisions at RHIC, as well as the perspective of new facilities like NICA and FAIR performing heavy ion collisions in lower energies and higher chemical potential, motivate us to bring together experimentalists and theoreticians in this workshop to discuss the role of electromagnetic interactions in the following topics:

QCD phase diagram and the critical point; Experimental observations of the magnetic field in HIC; Lattice QCD in a magnetic field; Particle production in a magnetic background; Isobar collisions and the chiral magnetic effect; Topological transport phenomena in the QGP; Electron-ion collider; Lambda polarization; Magneto-hydrodynamics; AdS/CFT approaches for QCD; Neutron stars; Color superconductivity; Relativistic-like phenomena in condensed matter; Other related topics.

There is no registration fee.

**Registration deadline:  
August 28, 2022**

**Online registration and more information:  
<https://www.ictp-saifr.org/eesm2022/>**



## ORGANIZERS

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