

Special Issue

Jet and Heavy Flavor Production

Message from the Guest Editors

Relativistic heavy ion collisions have been used for more than three decades to map out the phase diagram of quantum chromodynamics (QCD) matter. At RHIC, a new phase of matter has been discovered at extreme temperature and density, namely quark–gluon plasma (QGP), which exhibits almost perfect liquid dynamical behavior. RHIC and LHC experimentally continue to explore new regions of the phase diagram. Since 1979, the direction of nuclear physics in terms of required resources and funding levels has been re-evaluated by the Nuclear Science Advisory Committee in its Long Range Plan for Nuclear Science every 5 to 7 years. The most recent plan raised fundamental questions regarding confinement, such as, "What determines the key features of QCD? What is the radiation spectrum? How does the hot QCD itself respond to jet energy loss? ... Questions above could be answered in a quantitative manner through studies of jets, decay products of partonic interactions at large momentum transfers. For details, please visit the Special Issue [website](#).
Dr. Sevil Salur

Guest Editors

Dr. Christine Nattrass

University of Tennessee at Knoxville, 401 Nielsen Physics Building, 1408 Circle Drive, Knoxville, TN 37996-1200, USA

Dr. Sevil Salur

Department of Physics & Astronomy, Rutgers University, 136 Frelinghuysen Rd, Piscataway, NJ 08854, USA

Deadline for manuscript submissions

closed (31 October 2024)



Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



mdpi.com/si/125670

Universe
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
universe@mdpi.com

mdpi.com/journal/

universe





Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)



About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,
Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Astrophysics Data System, INSPIRE, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)