

Jet quenching in the quark-gluon plasma

Trento, 13 – 17 June 2022

Jet quenching is one of the smoking-gun signatures of the quark gluon plasma (QGP) created in relativistic heavy-ion collisions, and offers the long-term prospect to elucidate the microscopic degrees of freedom that emerge as QCD becomes deconfined. Over the past two decades, considerable progress has been made in understanding the medium modification of hard parton splitting as well as the medium's response to jet propagation, both of which are essential ingredients needed to extract medium properties. In this workshop, we aim to understand both common and disparate features between various theoretical approaches and jet quenching, and formulate strategies to disentangle them with novel experimental measurements.

Organizers

James **Mulligan** (UC Berkeley), Yen-Jie **Lee** (MIT), Konrad **Tywniuk** (University of Bergen), Leticia **Cunquero** (Ecole Polytechnique), Shanshan **Cao** (Shandong University)

Key Speakers

Carlota **Andres** (Ecole Polytechnique), Liliana **Apolinario** (LIP Lisbon), Nestor **Armesto** (Santiago de Compostela), Paul **Caucal** (BNL), Yi **Chen** (MIT), Raghav **Elayavalli** (Yale), Laura **Havener** (Yale), Peter **Jacobs** (LBNL), Zhongbo **Kang** (UCLA), Weiyao **Ke** (LANL), Abhijit **Majumder** (Wayne State University), Christopher **McGinn** (University of Colorado), Yacine **Mehtar-Tani** (BNL), Yasuki **Tachibana** (Akita University), Daniel **Pablos** (INFN Turin), Guang-You **Qin** (CCNU), Gunther **Roland** (MIT), Martin **Rybar** (Charles University), Andrey **Sadofyev** (Santiago de Compostela), Soren **Schlichting** (Bielefeld), Anne **Sickles** (Illinois), Alba **Soto-Ontoso** (IPhT Saclay), Varun **Vaidya** (MIT), Xin-Nian **Wang** (LBNL), Urs **Wiedemann** (CERN)

Director of the ECT*: Professor Gert Aarts

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