

Programm der Sitzung

13.-17. Juli 2026



EMMI Workshop: Probing the early stages with jets

Session

GSI, KBW Lecture Hall
Darmstadt

Mo., 13. Juli

09:00

Session: Flow and collectivity in jets

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Joao Barata

09:00–09:30 Uhr

Collective phenomena in jets - a new window into the ultimate quark-gluon droplet

Sprecher

Xiaoyu Liu

09:30–10:00 Uhr

Elliptic Anisotropy from Quantum Diffraction

Sprecher

Erik Carrió Úbeda

10:00–10:30 Uhr

Flow Effects on Jet Substructure in Monte Carlo Approach

Sprecher

Joseph Bahder

10:30

11:00

Session: Kinetic theory and jets

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Tuomas Lappi

11:00–11:30 Uhr

Deriving a parton shower for jet thermalization in QCD plasmas

Sprecher

Adam Takacs

11:30–12:00 Uhr

Non-equilibrium evolution of the soft sector in hadronic collisions from kinetic theory

Sprecher

Clemens Werthmann

12:00–12:30 Uhr

Azimuthal momentum isotropization in the early stages

Sprecher

Sergio Barrera Cabodevila

12:30

14:30

Session: Induced gluon radiation

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Liliana Apolinário

14:30–15:00 Uhr

In-medium QCD splittings beyond the soft, large N_c , harmonic-oscillator approximations all at once

Sprecher

Marco Leitão

15:00–15:30 Uhr

How the nonequilibrium initial stages influence medium-induced radiation

15:30

Sprecher

Florian Lindenbauer

Di., 14. Juli

09:00

Session: Jets and the medium

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Kirill Boguslavski

09:00–09:30 Uhr

Covariant Jet Momentum Broadening in QCD Effective Kinetic Theory

Sprecher

Isabella Danhoni

09:30–10:00 Uhr

Jet quenching of heavy quarks in flowing QCD matter

Sprecher

Matvey Kuzmin

10:00–10:30 Uhr

Probing coherence effects with jet formation time

Sprecher

Chiara Le Roux

10:30

11:00

Session: Jets in the experiment

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Liliana Apolinário

11:00–11:30 Uhr

What can we learn from sPHENIX about the early stages

Sprecher

Yeonju Go

11:30–12:00 Uhr

Outlook for heavy ion jet physics in the LHC Run 4 era

Sprecher

Austin Baty

12:00–12:30 Uhr

Measuring QGP microstructure and response to excitation

Sprecher

Peter Jacobs

12:30

Mi., 15. Juli

09:00

Session: Glasma

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Kirill Boguslavski

09:00–09:30 Uhr **Glasma calculations from proper time expansions**

Sprecher

Margaret Carrington

09:30–10:00 Uhr **Jet quenching in glasma**

Sprecher

Stanislaw Mrowczynski

10:00–10:30 Uhr **Jet transport coefficients in the Glasma**

Sprecher

Pablo Guerrero

10:30

11:00

Session: Initial stages and jets

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Liliana Apolinário

11:00–11:30 Uhr

Determination of the leading Lyapunov exponent for the glasma fields

Sprecher

Pooja -

11:30–12:00 Uhr **Jet quenching in the glasma phase**

Sprecher

Xoan Mayo Lopez

12:00–12:30 Uhr **Probing the properties of strongly interacting QGP by jet partons**

Sprecher

Elena Bratkovskaya

12:30

14:30

Session: Different approaches to jet quenching

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Tuomas Lappi

14:30–15:00 Uhr

Open quantum system approach to the transverse momentum broadening of a colour dipole

Sprecher

Pietro Benzoni

15:00–15:30 Uhr **Hamiltonian evolution of jets in the Glasma phase**

Sprecher

Carlos Lamas Rodríguez

15:30

Do., 16. Juli

09:00

Session: Jet substructure 1

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Liliana Apolinário

09:00–09:30 Uhr

Resolving QCD matter with Multipoint Energy Correlators

Sprecher

João M. Silva

09:30–10:00 Uhr

Probing jet-medium dynamics with higher-point energy correlators

Sprecher

Ankita Budhraj

10:00–10:30 Uhr

Probing the early stages with experimental jet observables

Sprecher

Yen-Jie Lee

10:30

11:00

Session: Jet substructure 2

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Tuomas Lappi

11:00–11:30 Uhr

Early-Time Dynamics of Heavy-Ion Collisions through Energy Correlators

Sprecher

Andrey Sadofyev

11:30–12:00 Uhr

Probing QCD media with projected N-point Energy Correlators

Sprecher

Balbeer Singh

12:00–12:30 Uhr

Pinning down the vacuum baseline of jets

Sprecher

Yi Chen

12:30

14:30

Session: Small systems

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Joao Barata

14:30–15:00 Uhr

Gradients all the way down: Two sources of initial state anisotropy

Sprecher

Oscar Garcia Montero

15:00–15:30 Uhr

Jets in hot-and-cold nuclear matter

Sprecher

Christopher McGinn

15:30

Fr., 17. Juli

09:00

Session: Probing the medium 1

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Kirill Boguslavski

09:00–09:30 Uhr

Energy loss from off-shell quarks in gluon fields

Sprecher

Ismail Soudi

09:30–10:00 Uhr

Minijet thermalisation and jet transport coefficients

Sprecher

Fabian Zhou

10:00–10:30 Uhr

Bulk-medium and hard-probe transport coefficients in the strongly interacting QGP

Sprecher

Olga Soloveva

10:30

11:00

Session: Probing the medium 2

Sitzung | **Ort:** GSI, KBW Lecture Hall, Darmstadt | **Vorsitzender:** Joao Barata

11:00–11:30 Uhr

Non-equilibrium Evolution of Heavy Quarkonium in the Medium

Sprecher

Peter Vander Griend

11:30