

“Resummation, Evolution, Factorization” Workshop Advisory Board Meeting – 28 August 2020



(<https://www.ed.ac.uk/>)

THE UNIVERSITY
of EDINBURGH

HIGGS CENTRE FOR THEORETICAL PHYSICS (/)

DEC 7 - DEC 11
2020 2020

Resummation, Evolution, Factorization 2020

Higgs Centre Workshop

Resummation, Evolution, Factorization 2020

Resummation, Evolution, Factorization 2020 is the 7th workshop in a series of workshops aiming to bring together experts who deal with high-energy hadronic processes where the transverse momentum of the scattering partons plays a relevant role.

This includes researchers of different communities specialized in, e.g., nucleon structure, transverse-momentum-dependent functions, small- x physics, jet physics, heavy-quark production, multi-parton interactions, etc.

Factorization theorems and resummation of large logarithms through evolution equations are key concepts for all these communities, which address overlapping physical phenomena with however different languages, calling for mutual understanding.

Indeed, this series of workshops aims at bridging the gap among them, to promote development and potential synergies, in view of the wealth of data taken at facilities like the LHC, RHIC or JLab, and future planned ones like the EIC.

Organizing Committee:

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<https://higgs.ph.ed.ac.uk/workshops/resummation-evolution-factorization-2020/>

STRUCTURE OF 2020 WORKSHOP

- In response to Covid pandemic regulations, we propose to go ahead with online form of the meeting
- Two options:
 - online only: using Zoom + possibly other platforms
 - hybrid: main programme online + a small group of people (locals + visitors) physically present at the Higgs Centre

COMMENTS, ADVICE?

PROVISIONAL LIST OF TOPICS

- TMDs and LHC (including LHC Electroweak Working Group developments)
- TMDs in low energy experiments (“qT crisis” in DY at fixed target)
- Lattice (quasi)PDFs and TMDs (X. Ji, L. Del Debbio, . . .)
- Factorization and Glauber exchange (J. Gaunt, . . .)
- Small- x (Y. Kovchegov, . . .)
- Jets (F. Yuan, W. Waalewijn, . . .)
- DIS – future LHeC, EIC, FCC-eh (A. Stasto, J. Qiu, . . .)

FURTHER SUGGESTIONS?

NEXT STEPS

- We expect to advertise the new format of the workshop to the whole community very soon
- Update the workshop's webpage and send out information to the workshop's mailing lists

COMMENTS, FURTHER ADVICE?