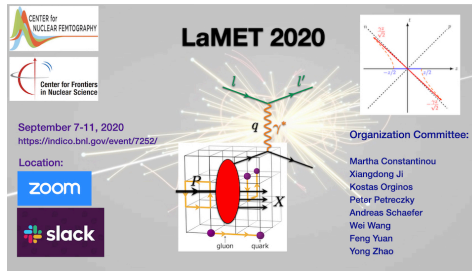


LaMET2020 Online



The banner for LaMET 2020 Online features a central diagram of a proton with internal quarks and gluons, and a scattering process involving a photon and a quark. Logos for the Center for Nuclear Photography and the Center for Frontiers in Nuclear Science are in the top left. The event dates (September 7-11, 2020) and a URL are provided. Logos for Zoom and Slack are in the bottom left. The Organization Committee members are listed on the right.

LaMET 2020

September 7-11, 2020
<https://indico.bnl.gov/event/7262/>

Location:
zoom
slack

Organization Committee:
Martha Constantinou
Xiangdong Ji
Kostas Orginos
Peter Petreczky
Andreas Schafer
Wei Wang
Feng Yuan
Yong Zhao

Contribution ID: 26

Type: **not specified**

TMD parton densities from LaMET

Monday, 7 September 2020 10:00 (30 minutes)

TMD parton densities are important for its theoretical value and for better understanding of Hadron structure. The first principle calculation of them from LaMET framework turns out to be non-trivial due to problems caused by soft function subtraction. In this talk I will talk about recent progress on lattice calculation of TMD soft functions and parton densities from the LaMET framework. I will show that the TMD soft function in off-light-cone regularization scheme can be extracted from heavy or light meson form factors, and with the help of the soft function, the universal scheme independent TMD-PDFs can be obtained once combining them with lattice calculable quasi-TMD PDFs.

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Presenter: Dr LIU, Yizhuang (TDLI)

Session Classification: Session I