

Theoretical Physics Division Seminar

Fundamental Research Department
NATIONAL CENTRE FOR NUCLEAR RESEARCH

26.05.2021 (Wednesday); Time: 15:00

The seminar is held online:

https://www.gotomeet.me/NCBJmeetings/bp2_seminar

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“Two topics in QCD spin”

ABSTRACT:

After a general introduction to QCD spin physics and nucleon spin decomposition, I will talk about two recent developments in this field. First, I discuss a novel connection between the nucleon electric dipole moment (EDM) and polarized Deep Inelastic Scattering (DIS). I argue that the matrix element of the CP-violating Weinberg operator is related to certain higher-order corrections in polarized DIS. Second, I discuss the small- x behavior of polarized parton distribution functions and orbital angular momentum distributions within the framework of double logarithmic resummation in QCD.

Best regards,

T. Altinoluk, M. Kowal, P. Małkiewicz, E. Sessolo, P. Zin