**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.