Theoretical Physics Division Seminar

Fundamental Research Department

**NATIONAL CENTRE FOR NUCLEAR RESEARCH**

**12.03.2025 (Wednesday); Time: 11:15**

**The seminar is held in person @ Pasteura 7, 207**

**Krzysztof Kutak IFJ PAN, Kraków**

“Entanglement entropy, Krylov complexity and Deep Inelastic Scattering”

**ABSTRACT:**

I will present recent studies of proton structure using methods motivated by quantum information. In particular I will present results for entanglement entropy and complexity related to gluon density density function as well as description of measured entropy in Deep Inelastic Scattering reaction.

*Best regards,*

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