"The Trans-Carpathian Seminar on Geometry & Physics"

(See also the Geometry & Physics @ DFT seminar homepage)

Date: Wednesday, May 29, 2024, 15:15 EET

Location: online via Zoom (Join Zoom Meeting)

Speaker: **Dr. Oleksii Kotov** (Univ. Hradec Králové, Czech Republic)

Title: **Introduction to Z-graded manifolds**

Abstract: In this lecture we will talk about Z-graded manifolds, understood in a semi-formal sense: a local function on such a manifold is a formal series in variables of non-zero degree, where the completion is taken with respect to the canonical filtration. Along with the motivation, examples of such manifolds and smooth classification theorem will be given. In addition, the properties of Z-graded Q-manifolds will be described. The audience is required to have basic knowledge of algebra and differential geometry. All other concepts will be explained.