"The Trans-Carpathian Seminar on Geometry & Physics"

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

Date: Wednesday, June 12th, 2024, 15:15 Bucharest time

Location: online via Zoom (Join Zoom Meeting)

Speaker: **Dr. Wojciech Kamiński** ((FUW, Poland))

Title: **Conformal Einstein's equations**

Abstract: Einstein field equations are not conformally invariant. Despite this fact, conformal geometry plays an important role in description of asymptotics of the solutions via so-called Penrose conformal compactification. Moreover, in many cases such conformal compactification of solution is smooth. It turns out that these facts are linked to a fundamental object in conformal geometry, Fefferman-Graham obstruction tensor. I will describe this connection in my talk, together with some interesting implications.