

Seminar: "Geometry&Physics", DFT (IFIN-HH)
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Location: DFT seminar room, IFIN-HH, Magurele

Date: Tuesday, July 26, 2016, 11:00 am

Title: **$SU(2)$ structures in $\mathcal{N} = 2$ compactifications of M-theory**

Speaker: **Dr. Mirela BABALIC** (IBS – Center for Geometry and Physics, Pohang, Korea)

Abstract: "The internal eight-manifold of a $\mathcal{N} = 2$ compactification of eleven-dimensional supergravity down to AdS_3 carries a stratification whose open stratum, when non-empty, is endowed with an $SU(2)$ structure. We show that this stratum admits a codimension three foliation whose five-dimensional leaves support this $SU(2)$ structure and we give explicit formulas for the defining forms of this structure in terms of the two Majorana spinors which correspond to the supersymmetry generators."