

*Seminar:* "Geometry&Physics", DFT (IFIN-HH)  
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Zoom link:

<https://us02web.zoom.us/j/89119921791?pwd=Sm1Fc21wSlc1TGtkK2syMlhRaE5DZz09>

*Date:* Wednesday, October 21, 2020, 17:00 Bucharest time (14:00 GMT)

*Title:* **The classification of principal bundles with weakly Abelian structure group**

*Speaker:* **Calin Lazaroiu** (Department of Theoretical Physics, NIPNE)

*Abstract:* "I briefly describe the geometry and topological classification of principal bundles whose structure group is a Lie group with Abelian Lie algebra. Such groups are generally disconnected and non-Abelian, but their connected component of the identity is an Abelian Lie group. Such principal bundles appear in certain physical theories, such as in "Abelian" gauge theories in 4 dimensions with electro-magnetic duality."