Seminar: "Geometry&Physics", DFT (IFIN-HH)
(Seminar Homepage) (Indico Page)

Location: DFT seminar room, IFIN-HH, Magurele

Date: Wednesday, August 10, 2016, 11:00 AM

Title: Coherent states and Berezin transforms attached to Landau levels

Speaker: **Prof. Zouhair Mouayn** (Sultan Moulay Slimane University, Morocco)

Abstract: "We review the definition and properties of coherent states with examples. We construct coherent states attached to Landau levels on the Poincare disk $\mathbb{D}$, Euclidean plane $\mathbb{C}$ and the Riemann sphere $\mathbb{CP}^1$. Generalization to the complex unit ball $\mathbb{B}^n$, to $\mathbb{C}^n$ and $\mathbb{CP}^n$ are also discussed. In these cases, we apply a coherent states quantization method to recover the corresponding Berezin transforms and we give formulae representing these transforms as functions of Laplace-Beltrami operators.