

From quantum moment maps to deformation quantizations on bounded symmetric domains

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This poster will introduce an explicit construction leading to a realization of the space of all invariant deformation quantizations on an arbitrary bounded symmetric domain of \mathbb{C}^n . It unifies existing methods giving such deformation quantizations. The method used in this work is lying at a crossing point between Lie theory, harmonic analysis and non-commutative geometry. It relies on the resolution of hierarchies of PDE's which are intimately related with the geometric structure of these domains. This approach extends new methods initiated by Bieliavsky and his collaborators in the 2000's.

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