

**INSTITUTUL DE MATEMATICĂ “SIMION STOILOW” AL ACADEMIEI ROMANE**

## ***The Natural Quantization of Poisson Manifolds***

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**Abstract:** The subject of the presentation will be the construction of a certain quantization of a suitable algebra of functions on a Poisson manifold, exhibiting very convenient uniqueness and functorial properties. The construction stems from the introduction of the Levi-Civita connection on a symplectic manifold and on Euclidean spaces agrees with the Moyal product. Unlike current attempts at solving the same problem, the present approach will not work with only formal series, but will also be concerned with their convergence.

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