

Im Oberseminar

Deformationsquantisierung

spricht am **6. 11. 2015 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

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über das Thema:

The deformed Koszul complex

The deformed Koszul complex is a very powerful tool in the theory of quantization of submanifolds of a already quantized manifold. After discussing the obstructions of a star product to be shrinkable to a submanifold and the so-called tangential star products, we will briefly develop the new technology, namely the Koszul complex, try to deform it and discuss the obstructions to do so.

Afterwards we try to understand what happens to the star product on the big manifold. It turns out that we force the star product to be indeed tangential to the submanifold, so we can canonically shrink it.

To show that this is not an empty theory, we will shortly discuss a big class of examples, namely the compact Lie groups with regular coadjoint orbits.

gez. Stefan Waldmann