

Seminarankündigung

## Deformationsquantisierung

**Am 7. 6. 2019 spricht um 14 Uhr c.t.**

Seminarraum SE 30

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Natural almost complex structures on twistor spaces

The twistor space  $J(M)$  of a  $2n$ -dimensional Riemannian or symplectic manifold  $M$  is the bundle consisting of all compatible almost structures on  $M$ . It is endowed with two natural almost complex structures  $J^\pm$ . The structure  $J^+$  was used by Atiyah on 4-dimensional oriented Riemannian manifolds; in particular conditions were given for  $J^+$  to be integrable. The structure  $J^-$  was introduced by Eells and Salamon as a first example of natural non integrable almost complex structure. We shall present nice tools introduced by O'Brian and Rawnsley to study those spaces, and show cases where  $J^-$  is maximally non integrable.

gez. Stefan Waldmann