Deformationsquantisierung

Am 20. 11. 2020 spricht um 14 Uhr c.t.

`https://bbb.durates.net/b/ste-2va-uez`

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Algebraic BRST Reduction in Stages

The Marsden Weinstein reduction scheme on a symplectic manifold (M, ω) in deformation quantization can be modelled by means of a BRST algebra. In case of a product Lie group $G = G_1 \times G_2$ acting on M we will show that BRST algebras allow for a reduction in stages. To do so, we introduce the notion of two compatible BRST structures on the same algebra $\mathscr{A}$ with BRST operators D_1 and D_2 and show that under certain conditions there exists an isomorphism between $\mathrm{H}^0(\mathrm{H}^0(\mathscr{A}, D_1), D_2)$ and $\mathrm{H}^0(\mathscr{A}, D_1 + D_2)$. Finally, we will show that those conditions are met on a neighbourhood of the constraint surface inside a symplectic manifold.

gez. Stefan Waldmann