9. Serious theorems.

Algebra $\mathcal{A}(\mathbb{R}^{2n}) = \dot{C}^\infty(S^{2n}_+) \subset C^\infty(S^{2n})$

Ideal as commutative algebras.

↑ Compact manifold with boundary

Theorem The non-commutative product on $\mathcal{A}(\mathbb{R}^{2n}) = \Psi^{-\infty}_{\mathrm{iso}}(n)$ also extends to a product on $\Psi^{0}_{\mathrm{iso}}(n) = C^\infty(S^{2n}_+)$.

'Isotropic algebra of pseudo differential operators'

$$\begin{array}{ccccc} \Psi^{-\infty}_{\mathrm{iso}}(n) & \overset{\text{ideal}}{\hookrightarrow} & \Psi^{0}_{\mathrm{iso}}(n) & \longrightarrow & A^{0}_{\mathrm{iso}}(n) \\ \| & & \| & & \| ? \\ \dot{C}^\infty(S^{2n}_+) & & C^\infty(S^{2n}_+) & & C^\infty(S^{2n-1})[[\rho]] \end{array}$$

*-algebra Hopf