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Abstract: *The Schwartz kernel representation* $(A \mapsto K_A) : \mathcal{L}(\mathcal{H}) \to \mathcal{H}\widehat{\otimes}\mathcal{H}'$ *endows the space of continuous linear operators on a nuclear Hopf-Fréchet algebra* $\mathcal{H}$ *with a natural Hopf algebra structure. We study pseudodifferential symbolic calculus on a compact Lie group* G *related to the function Hopf algebra* $\mathcal{H} := \mathcal{D}(G)$*.*

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