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| | **abstract** | We present the analytic foundation of a unified B-D-F extension functor Ext_Ï„ on the category of noncommutative smooth algebras, for any FrÃ©chet operator ideal K_Ï„. Combining the techniques devised by Arveson and Voiculescu, we generalize Voiculescu's theorem to smooth algebras and FrÃ©chet operator ideals. A key notion involved is Ï„-smoothness, which is verified for the algebras of smooth functions, via a noncommutative Sobolev lemma. The groups Ext_Ï„ are computed for many examples. | **abstract** | We present the analytic foundation of a unified B-D-F extension functor Extr on the category of noncommutative smooth algebras, for any FrÃ©chet operator ideal ^ . Combining the techniques devised by Arveson and Voiculescu, we generalize Voiculescu's theorem to smooth algebras and FrÃ©chet operator ideals. A key notion involved is r-smoothness, which is verified for the algebras of smooth functions, via a noncommutative Sobolev lemma. The groups Extr are computed for many examples. | | |
| | **versions** | | **versions** | | | |