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Operator ideals on C^*-algebras

We investigate the ideals of (finitely) strictly singular, inessential, and Dunford-Pettis operators on C^*-algebras and their preduals. We identify the classes of C^*- and von Neumann algebras for which (some of) these ideals coincide. Also, we present a characterization of strictly singular operators acting on C^*-algebras, generalizing a well known commutative result.