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Anna Skripka* (skripka@math.unm.edu). *Approximation of functions of differential operators*. Preliminary report.

We will discuss recent advancements in approximation of operator functions that arise in problems of mathematical physics and noncommutative geometry. In those problems, natural perturbations are not compact and do not commute with initial operators while traces of approximation errors should be small and nicely bounded. The talk is based on joint work with Teun van Nuland. (Received September 01, 2020)