

Approximate orthogonality in operator spaces

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Extending the idea of classical norm derivatives, we use that notion to obtain characterizations of the approximate Birkhoff-James orthogonality in some operator spaces.

In particular, we consider bounded linear operators in Hilbert spaces, operators that are close to compact operators and those belonging to the p -Schatten class.

The talk is based on joint work [1].

- [1] N. Altwaijry, J. Chmieliński, C. Conde, K. Feki, *Approximate orthogonality and its applications to specific classes of linear operators*, Bull. Sci. math. 202 (2025), 103646.