

**Title:** Typical properties of contractions on  $\ell_p$ -spaces

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**Abstract:** Given a separable Banach space  $X$  of infinite dimension, one can consider on the space  $\mathcal{B}(X)$  of bounded linear operators on  $X$  several natural topologies which turn the closed unit ball  $B_1(X) = \{T \in \mathcal{B}(X); \|T\| \leq 1\}$  into a Polish space, i.e. a separable and completely metrizable space.

In this talk, I will present some results concerning typical properties in the Baire Category sense of operators of  $B_1(X)$  for these topologies when  $X$  is a  $\ell_p$ -space, our main interest being to determine whether typical contractions on these spaces have a non-trivial invariant subspace or not.

The talk is based on joint work with Étienne Matheron and Quentin Menet.