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*A splitting theorem for holomorphic Banach bundles*

This talk is motivated by Grothendieck's theorem, according to which every finite rank vector bundle over  $\mathbb{P}_1$  splits into the sum of line bundles. In the 1960s, Gohberg generalized this to a class of Banach bundles. We consider a compact complex manifold  $X$  (thus  $\dim X < \infty$ ) and a holomorphic Banach bundle  $E \rightarrow X$  that is a compact perturbation of a trivial bundle in a sense recently introduced by Lempert. We prove that  $E$  splits into the sum of a finite rank bundle and a trivial bundle, provided  $H^1(X, \mathcal{O}) = 0$ .