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When James met Schreier

ABSTRACT. We amalgamate two important examples of Banach sequence spaces: James' quasi-reflexive space on the one hand and Schreier's space giving a counterexample to the Banach–Saks property on the other. We then investigate this new “James–Schreier space”, comparing and contrasting its properties with those of its ancestors. Of particular interest in this context is the fact that the James–Schreier space, like the James space, is a commutative Banach algebra with a bounded approximate identity when equipped with the pointwise product, even though the canonical basis is not unconditional. The talk will not assume any specialist knowledge of Banach spaces; in particular, the definitions of the James space and the Schreier space will be explained. Further aspects of the James–Schreier space will be given in Alistair Bird's talk.

Joint work with Alistair Bird.