Separable Lindenstrauss spaces whose duals do not contain weak* closed convex unbounded sets having the AFPP

Jeimer Villada
Uniwersitet Maria Curie Sklodowska

We characterize all separable L_1-preduals X for which every weak* closed convex unbounded set in X^* lacks the approximate fixed point property for nonexpansive mappings. Our result improves and completes a previous result in field, where this property was studied for $C(\alpha)$ and $C_0(\alpha)$ spaces with α an infinite countable ordinal as well as for ℓ_1-predual hyperplanes in c.