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Asplund operators and renormings.

We discuss asymptotically uniformly smooth and asymptotically uniformly convex operators, as well as transfinite generalizations of these notions. We discuss duality, renormings, ideal properties, and non-linear characterizations associated with classes of ξ -asymptotically uniformly smooth and ξ -asymptotically uniformly convex operators. (Received January 18, 2017)