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### **On the Structure Topology on the Set of all Extreme Points of the Closed Unit Ball of the Dual of a Banach Space**

Let  $X$  be a real Banach space, and let  $E_{X^*}$  stand for the set of all extreme points of the closed unit ball of  $X^*$ , endowed with the Alfsen-Effros structure topology [see E. M. Alfsen and E. G. Effros, *Structure in real Banach spaces I, II*, Annals of Math. 96 (1972) 98–128; *ibid.* 96 (1972) 129–73]. The fact that, for a given  $s^* \in E_{X^*}$ , the set  $\{\pm s^*\}$  is structurally open can be characterized in many apparently different ways, whenever  $X$  is nice. (We recall that  $X$  is said to be nice if every extreme operator from any Banach space to  $X$  is a nice operator, i.e. its adjoint preserves extreme points.) As a consequence, we obtain new characterizations (as well as new proofs of known characterizations) of those nice Banach spaces which are isometrically isomorphic to  $c_0(I)$  for some set  $I$ .

**Keywords:** Banach space, extreme operator, nice operator, structure topology.

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