1113-47-242 **Scott A. Atkinson*** (saa6uy@virginia.edu). *Convex Sets Associated to C*-Algebras.*

Given a separable C*-algebra $\mathfrak{A}$, we can associate to it an invariant given by the weak approximate unitary equivalence classes of $*$-homomorphisms from $\mathfrak{A}$ to a chosen separable McDuff II_1-factor M. One can show that this object takes the form of a closed, bounded, convex subset of a separable Banach space. This invariant is closely related (and sometimes affinely homeomorphic) to the trace space of $\mathfrak{A}$, but its data is different from that of the trace space in general. We will provide a characterization of extreme points of these convex sets in the cases where either $\mathfrak{A}$ is nuclear or $M = R$–the separable hyperfinite II_1-factor. If time permits, we will discuss some related open problems. (Received August 24, 2015)