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Dixmier sets of C^ -algebras*

I call "Dixmier set" a closed convex subset of a C^* -algebra that is invariant under unitary conjugation. Similar sets can be defined in the dual of a C^* -algebra (now using the weak* topology). I will talk about several natural questions on these sets and the answers that we know. Some of this work is joint with Ng and Skoufranis, some joint with Archbold and Tikuisis, some is still in progress.