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On operator Connes-amenability of $B(G)$

Runde introduced Connes-amenability as a notion of amenability for dual Banach algebras in 2001, and subsequently showed that the measure algebra $M(G)$ of a locally compact group is Connes-amenable if and only if G is amenable in 2003. By analog, one might guess that the Fourier-Stieltjes algebra $B(G)$ is operator Connes-amenable if and only if G is amenable, but this is not the case since it fails for $G = \mathbb{F}_2$ (Runde-Spronk, 2004). In this talk, we will describe conditions that imply the failure of operator Connes-amenability for $B(G)$. This provides the first known examples of groups where $B(G)$ fails to be operator Connes-amenable.

This is based on joint work with V. Runde and N. Spronk.