VOLKE RUNDE, University of Alberta Amenability of the Fourier algebra in the cb-multiplier norm

H. Leptin proved that a locally compact group G is amenable if and only if its Fourier algebra A(G) is has a bounded approximate identity. On the other hand, there are non-amenable groups, such as \mathbb{F}_2 , the free group in two generators, that have an approximate identity that is bounded with respect to the cb-multiplier norm on A(G). Later, Z.-J. Ruan improved Leptin's theorem by showing that G is amenable if and only if A(G) is operator amenable. In this talk, which is based on joint work with B. E. Forrest and N. Spronk, we show that the completion of $A(\mathbb{F}_2)$ in the cb-multiplier norm is operator amenable.