

Title: *On the Ore condition for group algebras of Thompson's group F.*

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Abstract: We have been studying on group algebras of R. Thompson's group F. We would like to show that these group algebras satisfy the Ore condition, which implies non-amenability of F. Unfortunately, we have not reached the goal yet. On the other hand, recently some research papers on this problem have been published. In this talk, we will first give a brief introduction for the amenability problem on Thompson's group F and then we consider Guba's recent results on this problem. Finally, we introduce our approach and the current progress.