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Title: On the existence of free group algebras in division rings

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Abstract: In 1984, L. Makar-Limanov conjectured the following:

- Let D be a division ring with center Z . If D is finitely generated (as a division ring) over Z and $[D : Z] = \infty$, then D contains a noncommutative free Z -algebra.

In many of the examples for which the conjecture is known to be valid, the division ring D contains a (noncommutative) free group algebra over Z , not only a free Z -algebra.

In our work, we obtain sufficient conditions for the existence of a free group algebra in division rings.