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Simple Lie algebras arising from Leavitt path algebras

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For a field K and directed graph E, we analyze those elements of the Leavitt path algebra L K(E) which lie in the commutator subspace [L K(E), L K(E)]. This analysis allows us to give easily computable necessary and sufficient conditions to determine which Lie algebras of the form [L_K(E), L_K(E)] are simple, when E is row-finite (i.e., has finite out-degree) and L K(E) is simple.

Comments: 18 pages. In the second version the exposition has been improved, and

various typos and minor errors have been corrected

Subjects: Rings and Algebras (math.RA)

MSC classes: 16D30, 16S99, 17B60 Cite as: arXiv:1107.3114v2 [math.RA]

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