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Classification of Simple Lie Algebras on a Lattice

Kenji Iohara, Olivier Mathieu

Let Λ be a lattice of rank n. A Lie algebra on the lattice Λ is a Lie algebra ${\cal L}=\oplus_{\lambda\in\Lambda}\,{\cal L}_{\lambda}$ such that $\dim\,{\cal L}_\lambda=1$ for all λ. In this article, we classify all simple graded Lie algebras on a lattice.

Subjects:	**Representation Theory (math.RT)**; Mathematical Physics (math-ph)
Cite as:	**arXiv:1107.2082** [math.RT]
	(or **arXiv:1107.2082v2** [math.RT] for this version)

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