Lisa Carbone

Rutgers University

A Lie group analog for the Monster Lie algebra

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Abstract:
The Monster Lie algebra m, which admits an action of the Monster finite simple group M, was constructed by Borcherds as part of his program to solve the Conway–Norton conjecture about the representation theory of M. We associate the analog of a Lie group $G(m)$ to the Monster Lie algebra m. We give generators for large free subgroups and we describe relations in $G(m)$.