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Moonshine: Unexpected symmetries in string theory

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Mathieu Moonshine concerns a surprising observation relating string theory to the representation theory of a particular sporadic group, Mathieu 24. This is reminiscent of Monstrous Moonshine in which it was discovered that the coefficients of the modular j -function are related to the representation theory of the Monster group. In this talk we will briefly review the Monstrous and Mathieu moonshines, before discussing objects analagous to those appearing in these stories in a new class of theories.

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