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Computational Problems Concerning Kac-Moody Algebras and Groups.

The Kac-Moody structures that are neither finite-dimensional nor affine are often characterized as of little interest. It is true that they don't seem to relate strongly to other fields of mathematics, but they do involve some beautiful structures, where theory and practical aspects of programming both occur. I'll try to explain a few. (Received September 18, 2007)