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Lisa Carbone* (carbone1@math.rutgers.edu), Department of Mathematics, Hill Center, Busch Campus, 110 Frelinghuysen Rd, Piscataway, NJ 08854. *\mathbb{Z} -forms of Kac-Moody groups*. Preliminary report.

We discuss the problem of constructing explicit \mathbb{Z} -forms of the Tits functor for Kac-Moody groups $G_A(K)$, where K is a field and A is an arbitrary generalized Cartan matrix. We propose a representation theoretic construction of $G_A(\mathbb{Z})$ and we present various minimal generating sets for $G_A(\mathbb{Z})$. (Received March 24, 2010)