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Demazure flags and tensor products of integrable modules for affine algebras. Preliminary report.

Let $\hat{\mathfrak{g}}$ be an affine Kac-Moody algebra. The problem of computing outer multiplicities of irreducible modules in tensor products of two integrable irreducible modules of $\hat{\mathfrak{g}}$ has gathered a lot of attention because of its connections to mathematical physics and number theory. In particular, tensor products of integrable irreducible modules with the basic representation of $\hat{\mathfrak{g}}$ are of special interest. We discuss the relation of this problem with the one of computing multiplicities in Demazure flags of a given Demazure module. (Received September 12, 2016)