1126-17-258 **Dijana Jakelić*** (jakelicd@uncw.edu) and **Adriano Moura** (aamoura@ime.unicamp.br). Partition identities arising from Demazure flags and outer multiplicities.

The study of characters and related structural problems of representations of an affine Kac-Moody algebra $\hat{\mathfrak{g}}$ often leads to proofs of interesting identities of combinatorial nature. In this talk, we discuss the relation between two such structural problems: the one of computing outer multiplicities of irreducible modules in tensor products of two integrable irreducible modules of $\hat{\mathfrak{g}}$ and that of computing multiplicities in Demazure flags of a given Demazure module. Our main result expresses the former in terms of the latter. By combining our result in the case of $\hat{\mathfrak{sl}}_2$ with the existing answers to the first problem, we obtain interesting partition identities. (Received January 16, 2017)