

Meeting: 1003, Atlanta, Georgia, SS 23A, AMS Special Session on Representations of Lie Algebras, I

1003-17-502 **Frank W. Lemire*** (lemire@uwindsor.ca), Department of Mathematics and Statistics,
University of Windsor, Windsor, Ontario N9B 3P4, Canada, and **Daniel J. Britten** and **Justin
Lariviere**. *Decomposition of Tensor Products of Torsion Free C_n -modules of finite degree and
simple finite dimensional modules*. Preliminary report.

In this talk we provide a formula for the decomposition of the tensor product of any simple torsion free C_n -module of finite degree with a simple finite dimensional module. This result is used to provide a new formula for the decomposition of the tensor product of two simple finite dimensional C_n -modules. (Received September 17, 2004)