## Lie Group and Representation Theory Seminar, Kyoto 2006

Date: June 20 (Tue), 2006, 16:30–17:30
Place: RIMS, Kyoto University : Room 402
Speaker: Pavle Pandzic (University of Zagreb)
Title: A simple proof of Bernstein-Lunts equivalence

Abstract:

In a paper in J. Amer. Math. Soc., Bernstein and Lunts proved that the equivariant derived category of (g, K) modules is equivalent to the ordinary derived category of (g, K) modules. Their proof is quite complicated; it uses K-injective resolutions and a few dualizing arguments. In addition, it works only for bounded derived categories.

I will present a simple proof of this result using K-projectives and some basic properties of triangulated categories. This requires the group K to be reductive, but this assumption is easily eliminated. No boundedness assumptions are necessary in my approach.

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