## 1078-17-131 Kenyon J Platt\* (kenyon.platt@snow.edu). Classifying the semisimple infinitesimal blocks of the parabolic category O.

Using a standard parabolic subalgebra  $\mathfrak{p}_S$  of a finite-dimensional semisimple Lie algebra  $\mathfrak{g}$  over the complex numbers, we can define a category of  $\mathfrak{g}$ -modules with certain nice 'finiteness' properties. This category, called a parabolic category, is a generalization of the Bernstein-Gelfand-Gelfand category  $\mathcal{O}$ . The parabolic category  $\mathcal{O}_S$  decomposes into special subcategories called infinitesimal blocks. Each infinitesimal block contains at most finitely many simple  $\mathfrak{g}$ -modules. We call an infinitesimal block consisting only of modules that are a direct sum of the simple modules in the block a semisimple block. In this talk, I will discuss a partial classification of the semisimple infinitesimal blocks and present a conjectured complete classification. (Received December 01, 2011)