

1115-22-254

Wilfried Schmid* (schmid@math.harvard.edu), Department of Mathematics, Harvard University, Cambridge, MA 02138. *On the Orbit Theorems of Hodge Theory.*

Kari Vilonen and I have formulated a conjecture on the irreducible unitary representations of reductive Lie groups. The conjecture rests on a generalization of Saito's theory of Mixed Hodge Modules - in effect, Saito's theory without an underlying rational structure. Logically, this involves an extension of the Nilpotent Orbit theorem of Hodge Theory. I shall describe this extension, and the resulting generalization of Saito's theory. (Received September 20, 2015)