

1152-05-491

Kevin R Meek* (kmeek@uidaho.edu), University of Idaho, Department of Mathematics, 875 Perimeter Drive MS 1103, Moscow, ID 83844, and **Alexander Woo**. *Multiplicities of Schubert Varieties*. Preliminary report.

Lakshmibai and Sandhya famously proved that smooth Schubert varieties, that is, Schubert varieties of Hilbert-Samuel multiplicity one, can be characterized by pattern avoidance. In this talk, I will establish that Schubert varieties of multiplicity two or less cannot be characterized by pattern avoidance and provide an alternate characterization based on the Rothe diagram. (Received September 11, 2019)