Paramasamy Karuppuchamy* (paramasamy@gmail.com). *On Schubert varieties.*

In this talk we show that a Schubert variety $X_w$ is a toric variety if and only if the Weyl group element $w$ is a product of distinct simple reflections. Part of this result can be found (not explicitly mentioned) in Deodhar’s article “On some geometric aspects of Bruhat orderings. I. A finer decomposition of Bruhat cell”. The author was unaware of this fact while writing his article. In $A_n$ type, Masuda and Lee have different approach to get this result in their recent paper “Generic torus orbit closure in Schubert varieties”. (Received September 25, 2018)