

1081-13-190

Isabella Novik and **Ed Swartz*** (ebs@math.cornell.edu). *Hilbert functions of face rings of pseudomanifolds.*

Stanley's use of Hilbert functions of Artinian quotients of face rings revolutionized the study of f-vectors of simplicial complexes. We will examine problems and recent progress in computing Artinian quotients of face rings of pseudomanifolds. This includes complete characterizations of several new 3-dimensional pseudomanifolds. (Received February 10, 2012)