

Meeting: 1006, Lubbock, Texas, SS 8A, Special Session on Invariants of Links and 3-Manifolds

1006-57-51 **Patrick M Gilmer*** (gilmer@math.lsu.edu). *On The Frohman Kania-Bartoszynska ideal.*

The Frohman Kania-Bartoszynska ideal is an invariant associated to a 3-manifold with boundary and a prime $p \geq 5$. It may be used to show one 3-manifold does not embed in another. We give some estimates of this ideal. We also calculate this invariant for some 3-manifolds constructed by doing surgery on a knot in the complement of another knot. This uses and extends work done with Gregor Masbaum. (Received January 29, 2005)