

1103-14-136

Anthony Geramita* (anthony.geramita@gmail.com), Dept. of Mathematics and Statistics, Queen's University, KINGSTON, Ontario K7L3N6, Canada. *The Secant Line Variety to the Varieties of Reducible Plane Curves.*

Let $S = K[x_0, x_1, x_2] = \bigoplus_{i=0}^{\infty} S_i$ be the standard graded polynomial ring over an algebraically closed field K . Let $\lambda = [d_1, \dots, d_r]$ be a partition of d into exactly r parts. The subvariety of $P(S_d)$ consisting of all forms which split as a product $F = F_1 \cdots F_r$, where $\deg F_i = d_i$ is called the variety of *reducible curves of type λ* .

The results described in this talk, which is joint work with M.V. Catalisano, A. Gimigliano and Y.S. Shin, will give the dimensions of the secant line varieties of the varieties described above, for every partition λ . (Received August 17, 2014)