1031-14-20   **Anthony Vito Geramita*** (`anthony.geramita@gmail.com`), Dept. of Mathematics, Queen's University, Kingston, Ontario K7L4N6, Canada, and **Enrico Carlini** and **Luca Chiantini**.
Complete Intersections on Hypersurfaces of projective n-space.

A well known theorem of Severi, Noether and Lefschetz talks about the kinds of complete intersections of codimension 2 one can find on a hypersurface of projective n-space.

In this paper we consider the analogous questions for complete intersections of larger codimension. Our approach is new and uses properties of Secants and Joins of Varieties of Reducible Forms. We show the connection between the problem considered and a well known conjecture of Froberg as well as showing a new way to prove an old theorem on Fano varieties. (Received July 06, 2007)