Gel’fand, I. M.; Zelevinskij, A. V.; Kapranov, M. M.
Projectively dual varieties and hyperdeterminants. (English. Russian original) Zbl 0715.14042

One studies conditions under which the dual variety $X^\vee$ to a projective variety $X \subset \mathbb{P}^n$ (X linearly normal and nondegenerated) has codimension 1; in this case one considers the question of finding the degree (or the equation) of $X^\vee$. There are considered the cases: (1) $X$ is the projectivization of the orbit of the highest weight vector in an irreducible representation of a semisimple complex Lie group, (2) $X$ is a product of projective spaces, embedded by the Segre map.

Reviewer: N.Manolache

MSC:
14M07 Low codimension problems in algebraic geometry
14M12 Determinantal varieties

Keywords:
dual variety; codimension 1; degree