

# ON SINGULAR VARIETIES WITH SMOOTH SUBVARIETIES

Maria del Rosario Gonzalez-Dorrego  
Universidad Autonoma de Madrid (Madrid, Spain)

Let  $k$  an algebraically closed field,  $\text{char } k = 0$ . Let  $Z$  be a reduced irreducible nonsingular  $(n - 1)$ -dimensional variety such that  $rZ = X \cap F$ ,  $r \in \mathbb{N}$ , where  $F$  is a  $(N - 1)$ -fold in  $\mathbb{P}^N$ ,  $X$  is a normal  $n$ -fold with certain type of singularities. We study when  $Z \cap \text{Sing}(X) \neq \emptyset$ .