SOME REMARKS ABOUT THE "NULLSTELLENSATZ"

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Introduction.

Let $K$ be a field and $\mathcal{R}_k^n$ the ring of the regular functions (in the sense of F.A.C.) on $K^n$.

Two problems are now natural:

1) to characterize the ideals of definition of $\mathcal{R}_k^n$
2) to characterize the ideals of definition of $K[\{X_1, \ldots, X_n\}$.

We have the following results:

Theorem I. - An ideal $I$ of $\mathcal{R}_k^n$ is of definition if and only if is intersection of maximal ideals.