SOME REMARKS ABOUT THE "NULLSTELLENSATZ"

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Introduction.

Let $K$ be a field and $\mathbb{K}_{\text{reg}}(\mathbb{K}^n)$ the ring of the regular functions (in the sense of F.A.C.) on $\mathbb{K}^n$. Two problems are now natural:

1) to characterize the ideals of definition of $\mathbb{K}_{\text{reg}}(\mathbb{K}^n)$
2) to characterize the ideals of definition of $\mathbb{K}[X_1, \ldots, X_n]$

We have the following results:

Theorem I. - An ideal $I$ of $\mathbb{K}_{\text{reg}}(\mathbb{K}^n)$ is of definition if and only if is intersection of maximal ideals.