example A - An " dhe space" An
"na eques"
as la my interest I A - A^T = TIA
AT
note that for these spices we have

$$A^{T}(A) = A^{T}$$
 is vertically in bijectural
Hown (RIX: JieI, A)
Ray
more generally, for any R-y B, neget a spice
 $S_{B}(A) = Hon_{2-y}(B, A)$

the anginal ones mans brachen use deled by
poly equis.
So support or have equis
$$f_j$$
, $j \in J$ in unable
 x_i , $i \in I$ fj $\in R[x_i]_{i \in I}$
and $e xt$ $S(A) = \{(a_i) \in A^{F} \mid f_j(a_i) = 0, d_j\}$
and $e xt$ $S(A) = \{(a_i) \in A^{F} \mid f_j(a_i) = 0, d_j\}$
then we find $S(A) = Hom_{Reg}(\frac{R[x_i]_{i \in I}}{(f_j)_{j \in J}}, A)$
So these are all of their firm.
But - these is all of them since for any R aly
 B_j we have a sing mp
 $R[x_i]_{i \in I} = B$ sine I
 $(I = Bheqh)$
and for B gently some f_j 's. so
 $B \simeq R[x_i]_{i \in J}$.

So rebegn with He geometry of Alfre referres Recall i il XCA & is an afre serety diled by some poly eques fir-ston, we dete $C[X] = C[x_{n} - x_{n}](t_{n} - t_{n})$ to le its my of regular functions" which is independent of the presentation. The fordemental insight of AG is that we can study X on the y 6 [X] frangle apt of XAP in maxident my all X gren as the kind of GIXZ - B time +(R) Det:" An aftre scheme is one that is between by its mail your fears.

(avectores ("lacsily ged spes")