Siní NCAIg geom based on quantum flag ufds - J. Stovicek. The (Serve 154) V cpx aff. var.

= ] 1-1 correspondence between 1) alg. vect. bills 15 +> V 11) certnin fris. gen. proj C[V] - modules - all ([[] modiles will correspond to q.c. shawes, finigen to coherent sheaves -flag manifolds - example: Grassmanians - the set Gruss of 1-dm subspaces of Ch forms a subset of a proj. spa a via Zi Giru, - P enbelding (U1, -, U) >> (U,1.. 1 U) where we fix a basis of 150 and assign it Plicker coordinates -> it is a zero-set of homogenous polynomials - Grant as flag milds a sep of slu, the sth fundamental rep V(ws) - In z can be identified with the orbit mith coord. sing given by S(gras) = DV(jws).

-> this generalises to all f(ag
many tolds -> cpx. Dro. of SLn. V of VE U(w,) man folds -> cpx. proj. varreties F given by quadratic hom, polynous w S(F) = (DV(N)), il= Etud. everghts