Nasjonalt algebarrose, 2014 Ray Fields 12:50 Will talk about Quot 7/P/s 4 proj. scheme F=DCO on PTS x mor bis respiction Esgar polynomial m. QUOT 3 6MB 378-38-30 flat over S, relative rank n/S F/P/5 0= 5 supple) is finite over S ad f. E beato free vin-Paricula caes o when p=1, Hilbert 9 7=0 (f=145) Grass (F) Regularity of In Caselnaoro-Munfod reg.) tesor + push down 2 0 > 6 Rd) -> f. Hd) - f. Eld) -0 # ga map Q = 5 Grass (fo Fld) = G

Grothadilch: i is a closel immersion.

(absorut prove) On quehwe the anisal sequence 0 -> Ra -> fx F(d) -> Ed >0 (modules on G) Con mulciples with of (OCI) & -. Ros Raus de the ing of Ros (2011) in fy Fd(+1) This gros a good submodule RS Afrifs. and on graded growther &= D &s. Thinkerdon. F= & Opr The Quot of Firm (Cd+i) What one the Fitting ideas? A fin grand A-module M. 0 < M < BA = BA The Fitt, My is closed in spec of some beg the ideal of (N-1) - minos of the

M loc-free roli (Fin.M) = Ø and Fire (M) = 1 Spec A As typ. spaces, reduced pur's

| Quot 3/ pr/s! = | fitt n., (Edin) | We have Quety/p1/s = Firt h-1 (Ed+1) Hilb p/s = Fitt (Ed+1) (horsmann personce thm.) G. Gall (Souder of his): have equality. ire. Quer's = Fitt, (Cd+1)





