Dedefind Jamains

DE A comm. North integrally closed domain of Knoll dimension T is collected a Dedetend domain.

Ext PID

The If Ra Ded. Laman IOR, he a vinge feetyahr.

I = TT Pi fink lot of gres Pi.

(= (Pi)

(Azili interes Z ne IN is growny is no present p.

IT p? = n

Q: How different we Ded. domana Som PID's?
want: Elderb3/spropel ideals?

5-0 1-3 = a monoral I. I aR

Etholog To a monoral I.JaR

Make it into - yp by product by prograts!

AR~R

a'R SF=fmcR IJ=aR

Pet A frutural ideal I is an R-submodule & F sil. aIER some aEF*

I is an ideal modulo prospel ideals

De A fractural ideal I is mutthe if 3 I frac ideal <1. IJ=R

Rem: fractural idals from a (multiplicate) manaid - (white R II frac. idal Merer I i. Tare.

De If I havidal, dute I'= {acF | aI ER} If I is muffle => III'=R.

Thm TFAE: In R domain

- . Ris a Dedidomain
- · Eur frectural ideal is murtible.

Det & frank ideals 3/ {procycl ideals} = { ideals 3/ {procycl ideals}

= Class gray IR.

Obser if Ris North donain = drawfural idals ar liger.

ISF her it of a I a R and sea of P-mods.

RNeth.

Lene I SF R-shood is afrecided = I fig. R-moll. T= Kaingamir aget = chance derst. dageralla: PAISR D. Len: il I francidal then

It a free idal.

PL IITER SO XEI > XITER.

Lens' Pine ideals in R Ded-domeis ene monthle.

PC: know P-IPER an Dal.

notice PER => REP-1

S. P=RPSP-PSR

=> P-IP is either Por P

16 516=6 => 6, 12 = 27 2 4 £;

P-1P-1P & P-(8-1P) & P-1P=P & R

= P'P' E P' is a subm.

but fig. on R = Pisson into all ext ft in F.

=7 PT=R sme RiM. closed

MTS: if P prie in Ded domain then PTZR chore a & P (50) Claimi (aR:P) ZaR FreR Inpears (Assure (aRiP)PEaR => (a"(aRiP))PER (aRiP) = aR Claimi P17R. a1(aRiP) = R PC I chin' of IEP pre, I to the (I: 6) 3I Pt. Conside PiniPr monnelpres our I so that JE = OP: know (SE) SI ATTPEL. Choose Pi-7 Pm possible of reports 5%.

Choose Pi-7 Pm possible of reports 5%.

The Pi mmmal set - (this 77; SI SP Picp sone i. = Pi=Psonei. T29(69T) $(\mathcal{F}:\mathcal{I}) \geq i \mathcal{F}_{i,t}^{\mathcal{T}}$

but TPg \$I by minimaly.

3 3xe TPg \I

xe(IiP) \I. D