Today: Projectly CTD for groups
Next time: Algebras, enconfelds
No class next week!
tardhan! • Russian mathematician, moved to Humard
AND THE PARTY OF T
* In a gager in 1964 (20 years old) of 3 pages, he created waves in the math moveld by introducing property CTO.
Marguillo: - Restien mathematician, moved to Yule.
* licids medalist
* Octimed relative property CTD
Recap: • G countable group
* H Hilbert squee
· U68CHD unitary
TIG → UCHJ, granicy or Ticyo: He (100 Ticyo). It is a unitary group regressation or Ticyo) and Ticyo = Ticyo".
· Matrix coefficients: 45,2611, g=> <4.7167227 4 Note: conjugate to our usual matrix coeff.
Trivial ree: 1964. denoted 16-
* Cot vegular vee: A:6-2UCLECGOO, garago, Acgolfocoo=fcg-120.
* Right regular reg: p: G-04Ce2CG33, pegsetaca=tengs.
* Notation: C11,42

Q: How one compare two vegresentations?
Weate Containment Prog: C71,40, Cp.40 two rep. of Fo
The pi all coeff. of the cun be approximated by a finite own of coeff. of p. i.e.
4200, Usett. Vivite set FCG, Farmaneh sit. 166, vegs17 - Eine en:, pegsa17168 UgeF
Fell - Topology: CT.HD witny ree. on Go
For EDD. (6H, FOR Rivite Det. VCR, E.C., ED):= {CP, HD: Frek D.t. 129, Eryst7 - < R. Pregon 7148 UgeFT defined a Dabbasis of nods of A for
RefCeD.
So, 714p => p is any mbd of 17.
* 164 p => p is any mod of 16. What does this leak like?
#18=1 UCIG. E.S.F) = ECP.HD: Aget 3.4. 155,57-50, Tegono168 UgeF} 1-50, Tegono86, so 1-Re50, Tegono784210-Regoni2
= {co, +0: Inok s.t. 11- < 1, 11/2007 < 8 yet] and <1-1/200.1-1/2007=2(1-1/2007=2(1-1/2007)
=> U1C1, E, F3 = (CT1, k3;] Met, Hall=1, 5.4. Supger Ha- Acyall < 8 hom a busis of hold of 15.
In order for a reg. to be close to 16, it must have about imminut vectors.
Och: Let Critto be a unitary req.
cid Given Fed finite set, 200, a vector of 10 CE, 10-inversent is suggestly-tregontles.
CODIT has almost invested technis if it has consolinate vectors. Year finise, 4600,
Remark: 10 L R GO CT, HO has almost invariant vectors.

and alternative A section as	
vertext vector has an investent vector enumeros.	
	CAHD, CO.HD vee, get it lett and Theze.
concerts: In terms of Eels topology, & having Property CTD 600 164	n so leeu-
EH s.t. nootes. Cich, migocato = at, migrate.	
, Property CTD manno trivial reg. is isolated.	
nis is called as "rigidity" evoperty.	
sumples CD Every finite group has Property C70. Not abrious!	
a structure the frequency con for now	
23 "Almost" every group has Property CTD.	
menunetes: c13 Abelian groups	
offin, 1922.	