Thm: If M :> a UN alg, then spenson = M. In fact, if OEXEL is in M. then x= Eyznen, presons.
Remarks To an at Charles on the sails are not a secretary's (Wasta has sails as to Ch
Remark: In general, Ca-algo can be guite sparse in projections: CCC01130 has only project.
Proof: Ofxil => GCx>+Co,13. Let Yze,=Yz/Levz,13Cx>. Note Ofx-Yze, fize Threats: Of Zx-e, st. sp
av _j gen-s
======================================
x-1/20, 1/2"en goes to 0 in 11 11. Think 0.301/2.0+1/4.1+1/8.0+
†eeca3
There IE x68CHD, x=x", then Kiozen = projector. More generally, for ter, then Kidlen = project of to
and the second of the second o
Prof: Let p= 2 (01 (n) EU. N. (n) (the s a proj.). Rongecp= {1 EH: p1=13. We need to show that the is karens.
cio Let (elt out, pi=1. We show x1=0. pi=1 = xp1=x1. xp corresponds use func, culc. to dizgotto, which is always 0.
Thus, xe=0. =>x(=0 => (6he/x.
^γ _{πλ(ε3} ^{εω} paintune
Cii) Assume x1=0. We show p1=1, so (1-p1=0. x1=0 => x=1=0 \ \text{VWEN => pexs1=0 \ \text{Vp galyo w/ peos=0 => fexs1=0 \ \text{VF Gover}
THE WARRY PT-0" WE WARR FEET TO PETO -> V. E-D -> V. E-D ANEIS -> LONGE-O AB BITTLE OF BEGINS OF LONGE-O AS COLUMN TO A COLUMN
bounded flux up feoso. So, if f=Zpysoz(x), feoso, so done!
Exercise: Any court time. I on a compact set can be approximately polys on proseo, if from the
There, any bounded Gover fune of as frosto can be approx. Countries by bounded sex. I by cont, fune of all groots.
Thm: (Dounded Borr! Functional Calculus): Let xEDCH) be normal, and denote DCECXD= {f: Exxx-> E: f bounded Borrel]. Then
there exists a unique *-marghon 0:00000000000000000000000000000000000
CID PICCECTOD is the cont. func. calc.
TITTICCOCKED TO THE WALL CRIE!
\$,o,
(2) if fund plune with sugar Ufulloo coo, funt 6006cano, then fucas fers.
for there are to be
Moreover, Mallel Coo if final, then from fenol, so it is cont.

In general, O is not 1-1, and if it is securable, O is onto, but not otherwise.

Proof: We trush there is an isometric +-morphism of from CCGCNO to C*CLINDO Py CD, we want a to extend a to
<u>წ</u> ლიაე.
Uniqueness of Di Gr a thin of Onice, any fellococcos is the cointinse limit of a uniformly bounded seq. fueccoscos.
So, by czo, fun-lim faco = lim 3.0, actus = lim 3.0, y clus cit for cont. s. So, & is unique.
Existence of 0: Octo=fixs is already defined for feccesson
((6(2))) = C = (6(2)), 2) EC for any 1, 2 EH.
dual = A Review
This is a court. Tineps map from CCGGASS to C. so in CCGCASS.
Thm: (Riesz-Markov-takutari Regresentation Thm): If held is compact, any SECCHO* is of the form SCFD=Skfdy for some
pe complex-unlued, Porel, regular measure on to, and 1,11±11511.
*Regular means MCES=infeco MCOS YE Burel.
· Conflex-valued mens us party was superful boular-last superful conflex-valued of superful s
· Cho mass lucination 1/1= Matchon the Chong t