Then (Faul-Mosher) If A =QI TM;
then. A NXN, (M, N have national part w/ identical Jordan forger Py Schelch QI (Xm) = B. lip (R) x B. lip (Con) (idea: - > is ly actom on boundary) and QI(XM)=Bilip(Ow6m)*) Be we have.

Bilip (200 Tded M+1/4)

A -> QZ (XM) Goder Tsom (XM). Note that Isom (XM) C Som (206m) x Sm (25 Tdom Strategy: Try to conjugate A. Into similartie
IThis is not Farl-Mosher's strategy, be Mosher-Sageer-Whyte. "Uniform" subgps of Bilip (Tdet(M)+1) into Sum (dos Tolat M +1

Actual Bilip (200 Gm) to Stun (200 GM) Mere pro (Further results:

Rester-Reng, Ty = N Fg. (N milpotent)

Dynarz-Xie & Pg. Cog Xd. Ty. · [Fslown-Fisher-Whyte, Reng]. Program on QI Rigodity of polycyclic gps. Precise statement of this: The (Dymarz - Xie) Let I' C Biliple M diagonalis Assure. Pis uniform, amenable, TO BELLEY DOGM X DOOGM \ 1 Then I is conjugate into Sim Oco Gay)

Pf fu the case MzeA, A=(52). 2064=(R2, dm) w/ dm (7,9):= max \$ 0x, (19)/2 Bilipschitz mags our of the your. f(x,y)=(y,(x,y), y,(y)) Tullia's thesis: Up to conjugary, there we T(X1Y)= O o (X+Gly), y).

gonilarly his & it lolder.

Glo)=0 Set B= Th: R-) R Ph(0)=0

(h: R-) R Ph(0)=0

(h: R-) R Ph(0)=0 Note: PDB Dande space
affinely and 30 mention W/ norm Mell = sup 14-218

Now we use: Thu (Day) If I is amenable, and acts by affine sometable transf on a coupt convex subset of a Barach Space, Then it chas a forced pt To Sansh The proof, conjugate so the fixed pt is at o