Ergodic Theory and Measured Group Theory Lecture 23

It's obvious With the orbit ey. rel. Ep = Eqs, i.e (is i a galing of Er. Obs, Early component of Cis is a homomorphic image of Cays(T), give by THO T.X. It hu action is free, this is a graphe isocorphist. Prop. For an CBER E, all of its graphings are Schreier ycaphis. Kost. let le be a graphing of E. By the Felding-Moure Newer, E=V graph(Ti) her sove Bond involutions. Let Th: X -> X by X +> Th X if ky Bax) EG is x in x otherize, ut I = < Y. : nGIN >. If's ensy to see, My al En=E. Letting S= {7.1: nEW} ve se Mit the Schreice graph at FTX works is precisely G.

New re define the analog of rank called cost. Again recall the the rack of a group I is minim over all its layles graphs of 2 the degrace of each vortex. Also recall, but tre a timile grouph h, # ecloses at h = 2 Dega(x).

(3) 3 Bonel ation 13× 1.7. Ep=E I this action is pap. Proof. (1)=>(2). Trivial have elevents of I are bovel byjections rith saylis EE. (2) => (3) 13 Feldman - Mobre. (3) => (1), let A,BEX be Boal in 4. A & B be a Bonel By 10, By Sijection. We implement le us a piecewise trans-To bijection. We implement le us a piecewise trans-To bijection. By F with cthy-many pieces: Fix F= (7n) wear To bijection. By F with cthy-many pieces: Fix F= (7n) wear And An := 5 x & A : n is the min. with Tux = $\Phi(x)$ }. A. (A) An (A) = 5 x & A : n is the min. with Tux = $\Phi(x)$ }. A. (A) A (A) (B) = Ju(U To A) = 5 J(Tu A) = 5 H(A) = J(A), E-classes We think of pup is all points in the same E- dans have equal mass, just like for finite groups. If a group I' is timbe then playne of each vertex is a lagleg graph = 2 of the average discree (with the uniform prob

How do ut compute the cost of E? What if we "take" a minimal graphing (i.e. acyclic). Would let achieve be cost? Wait, does mining graphing (recall Borel) always exist?

when the on (?),

Open problem. Is treenbility closed under finide-index extensions?

La tad, let FEE be [E:F]=2, [.e. ich E-dos har exactly 2 F-class. If F is threadle, is E threadle? Maybe J-treable?