Math 8803: MCC · Final: Attempt research · Primer, Farb-M Proposal Nov 2 · Flipped / Just in Time Target Nov 23 · ~ 1 chapter/ week Groups ok.

· Midtern: Read & summanite

a paper on MCG

Teams: Q's for dess

Open q's.

Also: This Wed 11:15 start.

Mapping Class Gps Mod (S) = To Homes + (S) = Homeo+(S)/isotopy Sample elements 2) Dehn twist (1) Alg geometry. Mod(Sg) = "TT," Mg Mg = moduli space of alg. curves of genus g.

spology § 5-bundles over B} ← S { πiB → Mod(s)} " monodromy" Mobius band also Armulus: [0,1]-bund

Essentially all 3-manifolds arise this way. $S \times [0,1] / (x,1) \sim (\varphi(x),0)$ [6]= } F & Mod (S) Donaldson: All sympledic 4-mans arise essentially this way. Also, Contact topology: open bks

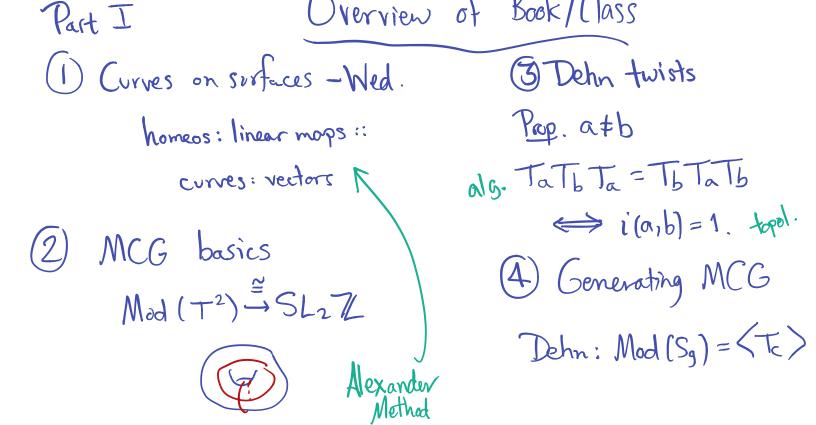
Agol, Wise, Perelman, Thriston...

Out(G) = Aut(G)/ 3) Geometric Group Thy Dehn-Nielsen-Boer thm

Modi(Sq) = Out Thi(Sq) Algebra

Topology.

Number thy-Related topics Grap Cohom. Group theory Rep thy Complex anal. Cropy thy Myp. geom Dynamics Algtop. Combinations



Overview of Book/Class

5) Presentations of MCG	6) Sympledic rep.
H1(Mod(5g)) = 0	(7) Torsion
H2 (Mod (Sg)) = 7	In Mod (Sa), elements
HK(Mod(Sg)) Characteristic classes for	In Mod (Sg), elements
A Commence of the Commence of	1,2,3,4,6,7,8,9,12,14.
Sy-burdles Super duper	(8) DNB (see above)
mysteriors.	9) Braid 3PS

Parts I &I

Nielsen-Thurston Classification Thm: Any F in Mod(S) has a rep. 9 that is

(1) Finite order 2) reducible: fixes a collection of disjoint CM162.



3 pseudo-Anosov: like (21) CIR