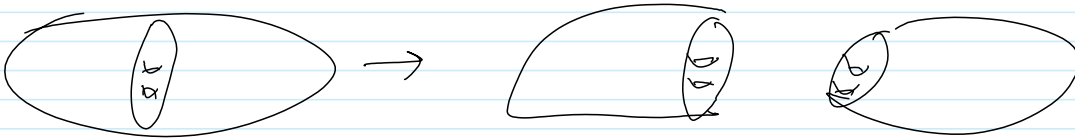


Kapovitch's class, Mon Feb 23: Rafi on boundary structures in 3D

February-23-15 11:10 AM

M Haken atoroidal aspherical



if both sides have a hyperbolic structure, try to glue these structures.

$$M = S \times I$$

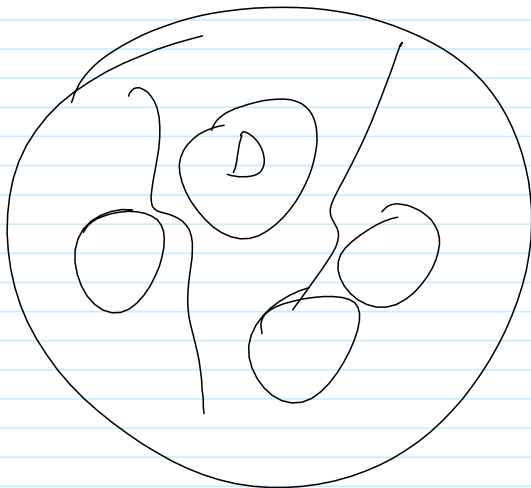


$$\pi_1(M) \hookrightarrow \mathbb{H}^2$$



$$\mathbb{H}^2 / \Gamma = X$$

$$\mathbb{H}^2 / \Gamma = \bar{X}$$



$$\Gamma_D = \text{stab } D$$

$$\text{if } g \notin \Gamma_D \Rightarrow g(D) \cap D = \emptyset$$

$$D / \Gamma_D = X$$

Thm (Bers, Simultaneous Uniformization)

$$AH(S \times I)$$

U

$$CC(S \times I) \cong T(S) \times T(\bar{S})$$

IF $(M, \partial M)$ is hyperbolic,

$$CC(M) \cong T(\partial M)$$

[a special case is Mostow rigidity].