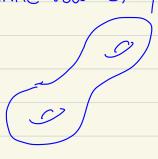
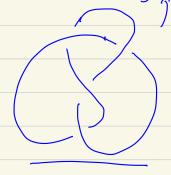
Geometry & Topology at Lanzhou University

Thurston norm and the geometry of surfaces

Mostow rigidity & effective geometrization.

Mª finite-volume, hyperbolic, n>, 3, geometry determined by Thi.





Riley 72.

Quantitative topology & geometry.

$$\emptyset \in H'(M^3; \mathbb{Z}) \cong H_2(M; \mathbb{Z}) \ni \S$$

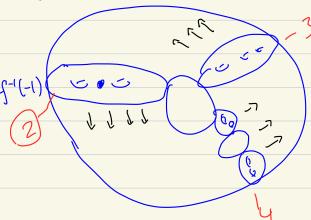
Thurston norm

M's compact irreducible, the Thurston norm on \$ $\chi_{-}(S) = \max_{x \in S} \{S, -\chi(S)\}$

11 pll-Th = min { X-(S) | S is embedded dual to \$?.

$$\phi \in H'(M; \mathbb{Z}), \quad f: M^n \longrightarrow S'.$$

$$f: M^n \longrightarrow S$$



in this example

$$\|\phi\|_{7h} = |2-2g| = 2.$$

M is hyperbolic, Il (Th genuine. IIa|1+0 => [2] +0. CH'(MiZ).

