

Modular form

6. description of moduli curve

1. All kinds of arithmetic gps
2. $Y(\Gamma) = \mathcal{H}/\Gamma$
 - as RS
 - fundamental domain and generators, volume
 - elliptic pts
3. $X(\Gamma) = \mathcal{H}^*/\Gamma$
 - cusp pts
 - as cpt RS
 - genus formula
4. Modular form, equivalent points of view

Remind myself: keep an eye on relations among different Γ 's.