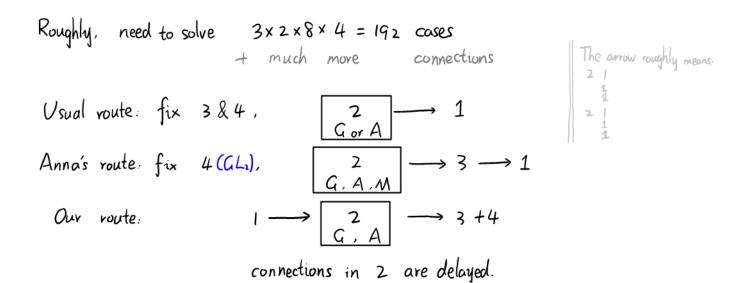
Roadmap



Program

\$ 1. No rep 1. Structure of finite/local/global field

¹[2. Structure of reductive gp (GLn)

§ 2. 1-dim rep

1 Character of Galois approvesponds to

2. Character of red gp rep of Fx

§ 3. Rep

1. Galois rep

2. Rep theory of red gp

§ 4. Geometrical rep

⁹ [1 Ec

2.MF (Moduli space Shimura variety

3. Flag variety

§ 5 Connections

1. MF ES iso Gal rep

6 [2.MF < modularity Gal rep

igen fiber Skp -> Fl
of Shimura var"

"moduli space Igs -> Bung rimoduli of G-bundles G-bundles on FFeurve

§ 6. Non-classical Langlands

1. Geometrical Langlands

2. Categorical geometrical Langlands

Galois gp. Frob, Weil gp Tits system. BT-theory

local class field theory F & Fx, OF & OF, Hecke character

WD - rep

L+p: 1-adic monodromy thm

1= p: Hierarchy of p-adic Galois rep

global: Chebotavev density thm

fin/NA/IR/Ax

preliminary

Hecke alg

classification (Hierarchy) cuspidal

étale cohomology, Fontaine-Mazur conj Shimura data equiv def of MF

Rep II

ES iso, ES relation Deligne - Serre thm Modularity

Mingjia's work. HT period map Torelli theorem

- Fargues - Scholze

- Chenji's work https://mathoverflow.net/questions/56 571/a-precise-statement-of-the-catego rical-version-of-geometric-langlands-c

Also, in each part:
Describe L-fction
Describe connections in section/among sections / with last part.