

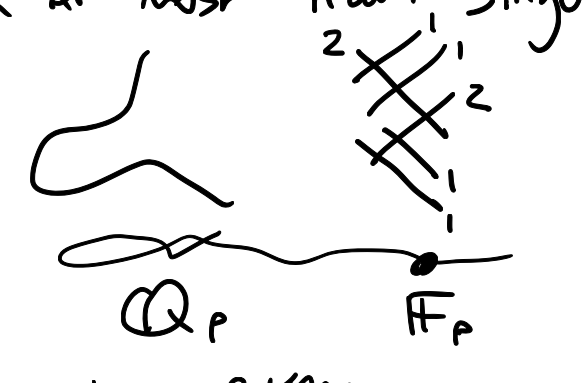
Analytic view towards semistable reduction

K NA discrete valuat
 K° ring of int's
 \tilde{K} residue char p
 $\hookrightarrow \hat{K}^a$

C/K nice curve $g \geq 1$
 $\xrightarrow{\text{smooth}} \text{gen. cur. } C_m \xrightarrow{\text{maj.}} \text{proper relative curve } C/K^\circ$
 model = proper relative curve
 generic fiber C

good red: smooth model exists

semistable red: \exists regular model
 w/ reduced special fiber
 with at most nodal singularities



SS red thm: every curve is pnt. semistable