0) Organizational remarks

§1 Lectures on Zoom

Participants
- → Video : on or off, as you prefer
- → Audio : mute by default at start of lecture
  can unmute to ask questions
- → Chat : feel free to ask questions here
  (and answer questions of other
  participants)
- → Quick feedback : below "Participant" list in Zoom
  you can give quick feedback
  (e.g. ✓ , ✗ , faster, slower, ...)
  ↝ I will try to keep an eye on this

Note | plan a 10 min. break in middle of
lecture.

§2 Script & Website
- → use my public website for now
- → put online short descriptions of
  lectures & script
- → <u>Exercises</u> voluntary but highly recommended
  ↝ oral exam will be based on selection
  of exercises

§3 Literature

very comprehensive, detailed proofs, assumes some prior knowledge

Literature
- E. Arbarello, M. Cornalba, P. Griffiths: Geometry of Algebraic Curves, Volume II (Chapters X - XX)
- J. Kock, I. Vainsencher: An Invitation to Quantum Cohomology (Chapter 1)   — very accessible, later different direction
- D. Zvonkine: **An introduction to moduli spaces of curves and its intersection theory** (Lecture notes)   → great, different geom. approach
- J. Harris, I. Morrison: Moduli of Curves → closest to direction of course, very few details, hard exercises
- P. Deligne, D. Mumford: **The irreducibility of the space of curves of given genus** → original paper
- E. Sernesi: Algebraic Curves and their Moduli (in: Moduli of curves, Springer 2016)

↳ decent introduction, nothing on intersection theory

§4 Format of the course & feedback
- → during next weeks: try out different
  tools (polls in Zoom, forum on ecampus)
  ↝ see what works
- → I greatly appreciate feedback from you ▽
  ↝ chat, email etc.

Questions ?