Organization

Time & Date
Lecture: Mondays 9:15 - 10:45
Exerc.: every 2nd Monday 15:15 - 16:45
Modele ?

Lecture - via Zoom, not recorded
- l'll upload my notes
- take your own notes!

 Exercises - homework problems every 2 weeks
hand in your solutions (properly scanned...)

Plan of the lecture O. Introduction (today) 1. Background (AG, AT, BA, CA, DG) Material 2. Basic notions (critical points, stability, germs of functions etc...) 3. Classification of singularities 4. Applications (?) - Morse theory, Picard-Lefschetz theory - Pynamical systems - stratified spaces, intersection homology

 $\int_{\mathcal{C}} (x) \leq X^2 + \mathcal{E} X$







- $\int_{\varepsilon} (x_{1}) = 2x + \varepsilon$ $\int_{\varepsilon} (x_{1}) = 3x^{2} + \varepsilon$ $\int_{\varepsilon} (x_{1}) = 3x^{2} + \varepsilon$ $\int_{\varepsilon} (x_{1}) = 2x^{2} + \varepsilon$
- = S The critical points of all fc and ge for E to all stable, while the one for go is not.





