

# Advanced Topics in Geometry F1 (MTH.B506)

Kotaro Yamada

`kotaro@math.titech.ac.jp`

<http://www.math.titech.ac.jp/~kotaro/class/2023/geom-f1/>

Tokyo Institute of Technology

2023/06/20 (Corrected: 2023/04/25)

## Q and A

- Q: Are there an (not necessarily linear) ordinary differential equation such that all solution of it are defined on whole  $\mathbb{R}$ ?
- A: All solutions of the equation  $\ddot{x} = -\sin x$  are defined on whole  $\mathbb{R}$ .