

# Interesting Topological Spaces in Algebraic Geometry

D. Zack Garza

Sunday 26<sup>th</sup> July, 2020

## Contents

<b>1 Ideas for Talk</b>	<b>1</b>
-------------------------	----------

## 1 Ideas for Talk

- Fake projective planes
- Conics
- Elliptic Curves
- Kahler Manifolds
- K3 Surfaces
- Del Pezzo surfaces
- Hurwitz schemes
- Topological galois groups, e.g.  $G(\bar{F}/F)$  for  $F = \mathbb{Q}, \mathbb{F}_p$ .
- $\text{Spec}(R)$  for  $R$  a DVR (a Sierpinski space)
- Quiver Grassmannians
- Rigid analytic spaces