Interesting Topological Spaces in Algebraic Geometry

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1 Ideas for Spaces

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 - Elliptic Curves
 - Higher genus
 - Hyperelliptic curves
- Surfaces
 - Klein Quartic
 - Compact Riemann surfaces
 - Enriques surfaces
 - Kummer surfaces
 - Del Pezzo surfaces
- Compact Complex Surfaces
 - Rational ruled
 - Enriques
 - -K3
 - * Kahler Manifolds
 - Kodaira
 - Toric
 - Hyperelliptic
 - Properly quasi-elliptic
 - General type
 - Type VII
- Fake projective planes
- Conics
- Calabi-Yau manifolds
- Hurwitz schemes
- Topological galois groups, e.g. $G(\overline{F}/F)$ for $F = \mathbb{Q}, \mathbb{F}_p$.
- Spec (R) for R a DVR (a Sierpinski space)

- Quiver Grassmannians
- Rigid analytic spaces