

AAG, WEEK 6: EXERCISES

- (1) Let X be the ringed space (S^1, \mathbf{Z}_{S^1}) with S^1 the topological circle, and \mathbf{Z}_{S^1} the constant sheaf of rings. Compute $\text{Pic } X$.
- (2) Show that every finite subset of $\mathbf{P}_{\mathbf{Z}}^d$ is contained in an affine open subset.