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Shin-Yao Jow* (jows@math.upenn.edu), University of Pennsylvania, Department of Mathematics, 209 South 33rd Street, Philadelphia, PA 19104-6395. *The effective cone of the space of parametrized rational curves in Grassmannians*. Preliminary report.

We will describe the effective cone of the Quot scheme parametrizing all degree d , rank r quotient sheaves of the trivial vector bundle of rank n on \mathbb{P}^1 . This Quot scheme is a nonsingular projective compactification of the scheme $\text{Hom}_d(\mathbb{P}^1, \text{Gr}(r, n))$ parametrizing morphisms of degree d from \mathbb{P}^1 to the Grassmannian $\text{Gr}(r, n)$. (Received September 05, 2010)