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Spaces of morphisms from a projective space to a toric variety. (English) Zbl 1350.14037

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Summary: We study the space of morphisms from a complex projective space to a compact smooth toric variety X. It is shown that the first author's stability theorem for the spaces of rational maps from $\mathbb{CP}^m$ to $\mathbb{CP}^n$ extends to the spaces of continuous morphisms from $\mathbb{CP}^m$ to X, essentially, with the same proof. In the case of curves, our result improves the known bounds for the stabilization dimension.

MSC:

14M25 Toric varieties, Newton polyhedra, Okounkov bodies
58D15 Manifolds of mappings

Keywords:

toric variety; Stone-Weierstrass theorem; spaces of toric morphisms; simplicial resolution

Full Text: DOI Link