Toric surfaces, Euler obstruction and applications

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Resumo

Given a normal toric surface X_σ in this work we present a formula for the Euler obstruction of a function $f : X_\sigma \to \mathbb{C}$ and for the difference between the Euler obstruction of the space X_σ and the Euler obstruction of a function f. As an application of this result we compute the Euler obstruction of a type of polynomial on a family of determinantal surfaces. Joint work with Nivaldo G. Grulha Jr. and Miriam S. Pereira.