

QUASITORIC MANIFOLDS AND TORIC ORIGAMI MANIFOLDS

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The notion of a toric origami manifold, which weakens the notion of a symplectic toric manifold, was introduced by Cannas da Silva-Guillemin-Pires [1]. Since a quasitoric manifold $\mathbb{C}P^2 \# \mathbb{C}P^2$ cannot admit an almost complex structure, it cannot be a symplectic toric manifold. But, we can show that $\mathbb{C}P^2 \# \mathbb{C}P^2$ can be a toric origami manifold. In this talk, we will discuss the relationship between quasitoric manifolds and toric origami manifolds.

REFERENCES

1. A. Cannas da Silva, V. Guillemin and A. R. Pires, *Symplectic Origami*, IMRN 2011 (2011), 4252–4293, arXiv:0909.4065.

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