

On a defining equations of $\mathbb{C}P^2 \# \mathbb{C}P^2$

Hideya Kuwata*

The topological toric manifold was introduced as an analogue of toric manifold (i.e. complete nonsingular toric varieties) by H. Ishida, Y. Fukukawa and M. Masuda, [1]. They constructed topological toric manifolds by quotient construction and gluing construction. I want to know a defining equations of topological toric manifolds. In my talk, I will introduce a defining equations of $\mathbb{C}P^2 \# \mathbb{C}P^2$. That is an example which is not a toric manifold but a topological toric manifold.

References

- [1] H.Ishida, Y.Fukukawa, M.Masuda, *Topological toric manifolds*, Moscow Math. J. **13**, (2013), 57-98.

*hideya0813@gmail.com