

Clarke, Patrick

A proof of the birationality of certain BHK-mirrors. (English) Zbl 1320.32032
Complex Manifolds 1, 45-51 (2014).

Summary: We generalize and give an elementary proof of *T. L. Kelly's* refinement [Adv. Theor. Math. Phys. 17, No. 6, 1425–1449 (2013; [Zbl 1316.14076](#))] of *M. Shoemaker's* result [Commun. Math. Phys. 331, No. 2, 417–429 (2014; [Zbl 1395.14034](#))] on the birationality of certain BHK-mirrors. Our approach uses a construction that is equivalent to the generalization of *M. Krawitz* [FJRW rings and Landau-Ginzburg mirror symmetry. Ann Arbor, MI: ProQuest LLC, University of Michigan (PhD Thesis) (2010)] of the duality in [*P. Berglund* and *T. Hübsch*, in: Essays on mirror manifolds. Cambridge, MA: International Press. 388-407 (1992; [Zbl 0842.32023](#))].

MSC:

[32Q25](#) Calabi-Yau theory (complex-analytic aspects)
[14J32](#) Calabi-Yau manifolds (algebraic-geometric aspects)

Cited in 6 Documents

Keywords:

[BHK-mirrors](#), [birationality](#)

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