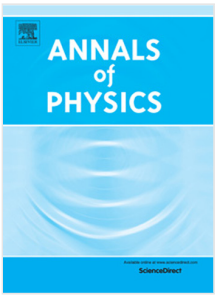
Accepted Manuscript



Embedding and partial resolution of complex cones over Fano threefolds

Siddharth Dwivedi

PII: S0003-4916(16)30208-1
DOI: http://dx.doi.org/10.1016/j.aop.2016.10.007
Reference: YAPHY 67225

To appear in: *Annals of Physics*

Received date: 17 November 2015
Accepted date: 1 October 2016

Please cite this article as: S. Dwivedi, Embedding and partial resolution of complex cones over Fano threefolds, *Annals of Physics* (2016), http://dx.doi.org/10.1016/j.aop.2016.10.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

*Manuscript
Click here to view linked References

ACCEPTED MANUSCRIPT

Embedding and partial resolution of complex cones over Fano threefolds

Siddharth Dwivedi

Department of Physics, Indian Institute of Technology Kanpur, Kanpur 208016, India

E-mail: sdwivedi@iitk.ac.in

Abstract: This work deals with the study of embeddings of toric Calabi-Yau fourfolds which are complex cones over the smooth Fano threefolds. In particular, we focus on finding various embeddings of Fano threefolds inside other Fano threefolds and study the partial resolution of the latter in hope to find new toric dualities.

We find many diagrams possible for many of these Fano threefolds, but unfortunately, none of them are consistent quiver theories. We also obtain a quiver Chern-Simons theory which matches a theory known to the literature, thus providing an alternate method of obtaining it.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5496022

Download Persian Version:

https://daneshyari.com/article/5496022

Daneshyari.com