

1124-14-192

Jonathan Mboyo Esole* (j.esole@northeastern.edu). *Flop transitions of elliptic fibrations with Mordell-Weil group with $\mathbb{Z}/(2)$ Torsion.*

I will discuss the resolved geometry of elliptic fibrations corresponding to gauge theories with gauge group $\mathrm{SO}(3)$, $\mathrm{SO}(5)$, and $\mathrm{SO}(6)$. I will present a generating function for the Euler characteristic of these elliptic fibrations with a base of arbitrary dimension. I will also discuss the network of flops of the $\mathrm{SO}(6)$ case. (Received September 08, 2016)