

Torus Bundles in Singular K3 and applications

Jose Medel

Florida International University

In this talk we mention a construction of torus bundles over singular $K3$ surfaces arising from the exceptional divisors of the blow-ups of the singularities of the surface. The bundles are compositions of Seifert S^1 -bundles. We apply these constructions to find solutions for the Hull Strominger system and the $G2$ analogue.

In Special Session 23 on Special Geometries and Gauge Theory at the Mathematical Congress of the Americas 2025.