

1011-53-224

**Marianty Ionel\*** (ionelm@math.mcmaster.ca), The University of Toledo, Department of Mathematics, 2801 W Bancroft St., Toledo, OH 43606. *Special Lagrangians in the Deformed and Resolved Conifolds.*

I will describe the cohomogeneity one special Lagrangian 3-folds in the cotangent bundle of the 3-sphere, also known in the physics literature as the deformed conifold. Our main result gives a global foliation of the deformed conifold by  $T^2$ -invariant special Lagrangian 3-folds, where the generic leaf is topologically  $T^2 \times \mathbb{R}$  and we study the asymptotic behaviour of these submanifolds. We then do the same analysis for the resolved conifold which is known to be the local mirror of the deformed conifold. (Received August 28, 2005)