

## **Smoothings of singularities and symplectic topology**

Mohan Bhupal

*METU - Mathematics Department*

I will give a survey of the symplectic methods which have been applied in the classification of weighted homogeneous singularities with rational homology disk smoothings. In many cases these smoothings are unique up to symplectic deformation. Also, I will describe a method for finding differential topological descriptions (more precisely, Kirby diagrams) of the smoothing and this will be illustrated on a family of examples.