

1142-54-187

Jo Nelson* (jo.nelson@rice.edu). *Reeb dynamics of the links of simple singularities.*

We discuss Morse-Bott computational methods for computing the contact homology of 3-dimensional prequantization bundles and applications to quantitative questions in dynamics. Of particular interest will be work in progress establishing a Floer theoretic McKay type correspondence for links of simple singularities via these geometric methods. Along the way, we will see a neat relationship between the Reeb dynamics and the presentation of these links as Seifert fiber spaces. (Received September 05, 2018)