

Department of Mathematics, BGU

AGNT

On Tuesday, December ,20 2022

At 12:40 – 13:40

In 101-

Yotam Svoray (University of Utah)

will talk about

Invariants on non-isolated hypersurface singularities

Abstract: A key tool in understanding (complex analytic) hypersurface singularities is to study what properties are preserved under special deformations. For example, the relationship between the Milnor number of an isolated singularity and the number of A_1 points. In this talk we will discuss the transversal discriminant of a singular hypersurfaces whose singular locus is a smooth curve, and how it can be applied in order to generalize a classical result by Siersma, Pellikaan, and de Jong regarding morsfications of such singularities. In addition, we will present some applications to the study of Yomdin-type isolated singularities.