András Csépai

Title: On Coincidences of Certain Thom Polynomials

Abstract: It is classically known that the modulo 2 Thom polynomials of the singularities $\Sigma^{1_2}(k)$ and $\Sigma^2(k-1)$ coincide. Motivated by a question of L. Fehér, we give a geometric explanation of this by showing that for all smooth cusp maps f the Σ^{1_2}-locus of f is embedded cobordant to the Σ^2-locus of any (appropriately defined) de-suspension of f. We will also see that for prim maps (i.e. projected immersions) the same correspondence holds for the Σ^{1_r}-locus and Σ^r-locus for any r, moreover, this extends in a weaker form for a more general class of maps called twisted prim maps. This is a joint work with A. Szűcs and T. Terpai. Although this talk connects to last week's, I will not rely here on anything that was introduced there.