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Title: Global Singularity Theoretic Results on Projected Immersions

Abstract: A smooth map $f\colon M \to N$ is called a projected immersion, or shortly prim, if it is the composition of an immersion into $N \times \mathbb{R}$ and the projection to N. In this talk I will describe new results on prim maps in two branches of global singularity theory. First, we extend Salomonsen's exact sequence from cobordism groups of immersions to cobordism groups of prim maps with prescribed singularities; this is then applied to compute some of these cobordism groups in small and large codimensional cases. Secondly, motivated by a question of L. Fehér on the coincidence of certain Thom polynomials, we show that for any r the locus of Σ^{1_r}-points of a prim map is embedded cobordant to the locus of Σ^r-points of a "de-suspension" of it, moreover, a weaker form of this correspondence also holds for a more general class of maps called twisted prim maps. The latter is part of a joint work with A. Szűcs and T. Terpai.