TOPOLOGY SEMINAR

Counterexamples to the Oozing Conjecture (Part II)

By

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Abstract: I will begin with a brief introduction to surgery theory and assembly maps. I will then discuss joint work with Ian Hambleton, in which we construct counterexamples to the Oozing conjecture. The Oozing Conjecture predicts that Arf-type surgery obstructions do not produce new classes under sufficiently high-codimension products. Examples of Morgan–Pardon and Cappell–Shaneson exhibit non-triviality in codimensions 2 and 3, respectively. We give a new example in codimension 4.

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