



Leibniz
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Oberseminar Institut für Algebraische Geometrie

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Finite sets (containing zero) are mapping degree sets

Let M, N be two oriented closed connected manifolds of dimension n . The mapping degree set is the set of integers $\text{deg}(M, N) = \{\text{deg}(f) \mid f: M \rightarrow N\}$. A very relevant problem is to determine which sets of integers can appear as mapping degree sets. By cardinality reasons, not all sets can. In this talk, we show that any finite set of integers A , containing 0, is a mapping degree set for some choice of M, N . We extend this question to the rational homotopy theory setting, where an affirmative answer is also given, by using Sullivan models. (joint work with C. Costoya and A. Viruel)

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Alle Interessierten sind herzlich eingeladen.