

Splitting links by integer homology spheres

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We show that there exists a submanifold diffeomorphic to $S^2 \sqcup S^2$ sitting inside S^4 , whose components are separated by an integer homology 3-sphere Y (i.e., a manifold with the same integer homology of S^3), but not by the standard S^3 . This is joint work with Marco Golla.