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Finiteness properties of 3-manifolds related by non-zero degree maps. Preliminary report.

Our main result is that given any closed orientable 3-manifold M , then there are only finitely many integral homology 3-spheres N , so that there is a non zero degree mapping from M to N . As a corollary, we answer an old question of J. Simon on non degenerate epimorphisms between knot groups. (Received September 21, 2007)