

A colinking property of ENR's in Menger manifolds

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Abstract. Main Result: A k -dimensional ENR embedded in a Menger n -manifold can colink a cycle of dimension $n - k$, but not one of dimension $n - k - 1$.

For setting and contrast, recall that if “Menger n -manifold” is replaced by locally euclidean, i.e. ordinary “ n -manifold”, then the two conclusions — dimensions $n - k$ and $n - k - 1$ — must each be reduced by 1 (and furthermore the implication becomes iff).

This answers a question of Jimenez-Scepin, who proved the case where the ENR is a polyhedron.

This is joint work with Steve Chan.