

Definable C^r submanifolds in a definable C^r manifold

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Abstract. Let X be a definable C^r manifold, Y_1, Y_2 definably compact definable C^r submanifolds of X such that $\dim Y_1 + \dim Y_2 < \dim X$ and Y_1 has a trivial normal bundle. We prove that there exists a definable isotopy $\{h_p\}_{p \in J}$ such that $h_0 = id_X$ and $h_1(Y_1) \cap Y_2 = \emptyset$.