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Clustering solutions for smooth perturbations of a critical elliptic equation in low dimensions

I will discuss the question of existence of positive solutions with multiple clustering peaks for smooth perturbations of a critical elliptic equation on a closed manifold. I will present an existence result of such solutions for the Lin-Ni equation in dimensions four and five on a manifold with negative scalar curvature. This is a joint work with Pierre-Damien Thizy (University of Cergy-Pontoise).