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A finiteness theorem for isoparametric foliations

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Abstract: Isoparametric foliations are a classical object in submanifold geometry, having been studied for over a century from differential geometric, topological, and algebraic perspectives. In this talk, I will provide a brief introduction to this topic and present the following result, obtained jointly with Manuel Kranich and Marco Radeschi:

In dimensions $\neq 5$ there are only finitely many distinct foliated diffeomorphism types of isoparametric foliations in simply connected Riemannian manifolds of uniformly bounded geometry and diameter.

