

**Diophantine Approximation, Fractal Geometry and Related topics /
Approximation diophantienne, géométrie fractale et sujets connexes**

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Counting Rational Points Near Manifolds

Choose your favourite, compact manifold M . How many rational points, with denominator of bounded size, are near M ? We report on joint work with Damaris Schindler and Rajula Srivastava addressing this question. Our new method reveals an intriguing interplay between number theory, harmonic analysis, and homogeneous dynamics.