Strichartz estimates for the Schrödinger equation on the sphere

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摘要： We will discuss Strichartz estimates for solutions of the Schrödinger equation on the standard round sphere, which is related to the results of Burq, Gérard and Tzvetkov (2004). The proof is based on the arithmetic properties of the spectrum of the Laplacian on the sphere along with some local bilinear estimate in harmonic analysis. We shall also discuss some related results on the flat tori and on manifolds with negative curvature. This is based on ongoing joint work with Christopher Sogge.

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