

Spectral Theory and Applications

Locality of the heat kernel

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We will discuss what it means for the heat kernel to be local. We will define this in a broad metric space setting and look for general conditions that guarantee locality. This will include cases like Riemannian manifolds and quantum graphs, where locality is known to hold but also various other spaces. We will also discuss locality of the Wiener measure of the associated Brownian motion. This is still work in progress.
