Functional Analysis Seminar

On Hochshild cohomology of uniform Roe algebras with coefficients in uniform Roe bimodules

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Abstract

Uniform Roe algebras play an important role in noncommutative geometry. It was shown recently by M. Lorentz and R. Willett that all bounded derivations of the uniform Roe algebras of metric spaces of bounded geometry are inner. Here we calculate the space of outer derivations of the uniform Roe algebras with coefficients in uniform Roe bimodules related to various metrics on the two copies of the given space. We also give some results on the higher Hochschild cohomology with coefficients in uniform Roe bimodules.

Time: Wednesday, July 6, 2022, 16:00-17:30 (UTC+8)

Zoom ID: 824 7045 6491   (Password: 123399)

Link: https://zoom.us/j/82470456491?pwd=dGswU3d3RGd1L1d4a3ZvSXdnakVkUT09