

Analysis and Applied Mathematics Seminar

Dirichlet forms on metric measure spaces as Mosco limits of Korevaar-Schoen energies

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Abstract: We will give sufficient general conditions for the existence of Mosco limits of Korevaar-Schoen L^2 energies, first in the context of Cheeger spaces and then in the context of fractal-like spaces with walk dimension greater than 2. Among the ingredients, a new Rellich-Kondrachov type theorem for Korevaar-Schoen-Sobolev spaces is of independent interest. The talk will be based on a joint work with Patricia Alonso-Ruiz (Texas A&M)

Monday, October 30 at 4:00 PM in 636 SEO