

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

Fabrice Baudoin

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)