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Minimizing some discrete energy functionals on a regular metric measure space

We will discuss a construction of discrete Dirichlet forms on Newtonian functions $N^{1,2}$ comparable to the upper gradient energy. Studying the Γ -limit of these Dirichlet forms we will talk about a boundary value problem associated with this limit.

This is joint work with N. Shanmugalingam and L. Luo