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Discrete Dirichlet forms on a regular metric measure space

We will discuss a construction of discrete Dirichlet forms on Newtonian functions $N^{1,2}$ that are comparable to the upper gradient energy form. We will look into properties of the Γ -limit of these Dirichlet forms, and talk about the Dirichlet boundary value problem associated with it. This is joint work with N. Shanmugalingam and L. Luo.