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Caloric measure in parabolic flat domains

In my talk I will describe recent work (joint with Steve Hofmann and John Lewis) on the caloric measure on what we refer to as parabolic chord arc domains. In particular I will show that in a parabolic chord arc domain with vanishing constant, the logarithm of the density of caloric measure with respect to a certain projective measure is of vanishing mean oscillation. A partial converse of this result will also be discussed.