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Cheng-Chiang Tsai* (chchtsai@mit.edu), MA. *A categorification for invariant distributions on the nilpotent cone of a reductive p -adic Lie algebra.*

We propose a categorification for the space of invariant distributions on the Lie algebra of a reductive p -adic group that relies on the well-known generalized Springer theory for the residue field. This allows us to re-define and prove new properties about certain "cuspidal" distributions that were used by Waldspurger (and DeBacker-Kazhdan) to construct and analyze stable distributions. (Received January 17, 2017)