

THE CUT METRIC FOR PROBABILITY DISTRIBUTIONS

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ABSTRACT. Guided by the theory of graph limits, we investigate a variant of the cut metric for limit objects of sequences of discrete probability distributions. Apart from establishing basic results, we introduce a natural operation called *pinning* on the space of limit objects and show how this operation yields a canonical cut metric approximation to a given probability distribution akin to the weak regularity lemma for graphons. *MSc: 60C05, 60B10*

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