

**Title: Extensions and New Constructive Versions of the Lov'asz Local Lemma**

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**Abstract:** We present some extensions and new constructive versions (which build on Moser and Tardos' seminal work) of the Lov'asz Local Lemma. In particular, we show that a *partial* resampling approach can improve the performance of Moser-Tardos type resampling algorithms. We will briefly present some applications in discrete math (especially in graph transversals) and computer science.

This is joint work with David Harris.