

**On the spectral gap of one-dimensional Schrödinger operators on large intervals**

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We study the effect of non-negative potentials on the spectral gap of one-dimensional Schrödinger operators in the limit of large intervals. In particular, we derive upper and lower bounds on the gap for different classes of potentials which characterize its asymptotic behaviour. This talk is based on joint work with Joachim Kerner; arXiv:2012.09060.