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Exponential frames on unbounded sets.

In contrast to orthonormal and Riesz bases, exponential frames are in many cases easy to come by. In particular, it is not difficult to show that every bounded set of positive measure admits an exponential frame.

When unbounded sets (of finite measure) are considered, the problem becomes more delicate. In this talk I will discuss a joint work with A. Olevskii and A. Ulanovskii, where we prove that every such set admits an exponential frame. To obtain this result we apply one of the outcomes of Marcus, Spielman and Srivastava's recent solution of the Kadison-Singer conjecture. (Received January 20, 2015)