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**Alex Iosevich\*** (iosevich@math.rochester.edu), 145 Dunrovin Lane, Rochester, NY 14618,  
and **Steen Pedersen** and **Yang Wang**. *Density of frames and spectra.*

We will show that if  $E \subset \mathbb{R}^d$  of Hausdorff dimension  $s > 0$  and if  $\mu$  is the restriction of the  $s$ -dimensional Hausdorff measure to  $E$  such that  $L^2(\mu)$  possesses a frame of exponentials  $\{e^{2\pi i x \cdot a}\}_{a \in A}$ , then under additional mild assumptions on  $\mu$ ,

$$\#(A \cap B(x, r)) \leq CR^s.$$

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