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Lixiang An* (anlixianghai@163.com), Wuhan, Hubei 430079, Peoples Rep of China. *Riesz bases of exponential functions for Riesz product measures*. Preliminary report.

Denote a discrete measure with finite support as $\delta_{\mathcal{D},P} = \sum_{i=0}^{q-1} p_i \delta_{d_i}$. In this talk, we will examine the Fourier fram/Riesz bases for the Riesz product measure

$$\mu_{A,\mathcal{D},P_k} = \delta_{A^{-1}\mathcal{D},P_1} * \delta_{A^{-2}\mathcal{D},P_2} * \delta_{A^{-3}\mathcal{D},P_3} \cdots .$$

Under some natural assumption, we will prove that if it has fourier frame/Riesz basis, then it must have a certain uniformity in the sense that the weight is distributed quite uniformly on its support. If it has uniformity, then it has fourier frame/Riesz basis if and only if the self-affine measure $\mu_{A,\mathcal{D}}$ has one . (Received August 25, 2018)