1099-42-370 **Shahaf Nitzan*** (`shahaf.n.h@gmail.com`) and **Gady Kozma**. *Combining Riesz bases in $\mathbb{R}^d$.*

In a previous work, Joint with Gady Kozma, we established that every finite union of intervals in $\mathbb{R}$ admits a Riesz basis of exponentials. In this talk we will discuss an extension of this result to higher dimensions: In $\mathbb{R}^d$ every finite union of rectangles, with edges parallel to the exes, admits a Riesz basis of exponentials. (Received February 11, 2014)