## A Wavelet Tour of Signal Processing
**Stéphane Mallat, Academic Press 1999 (2nd edition)**

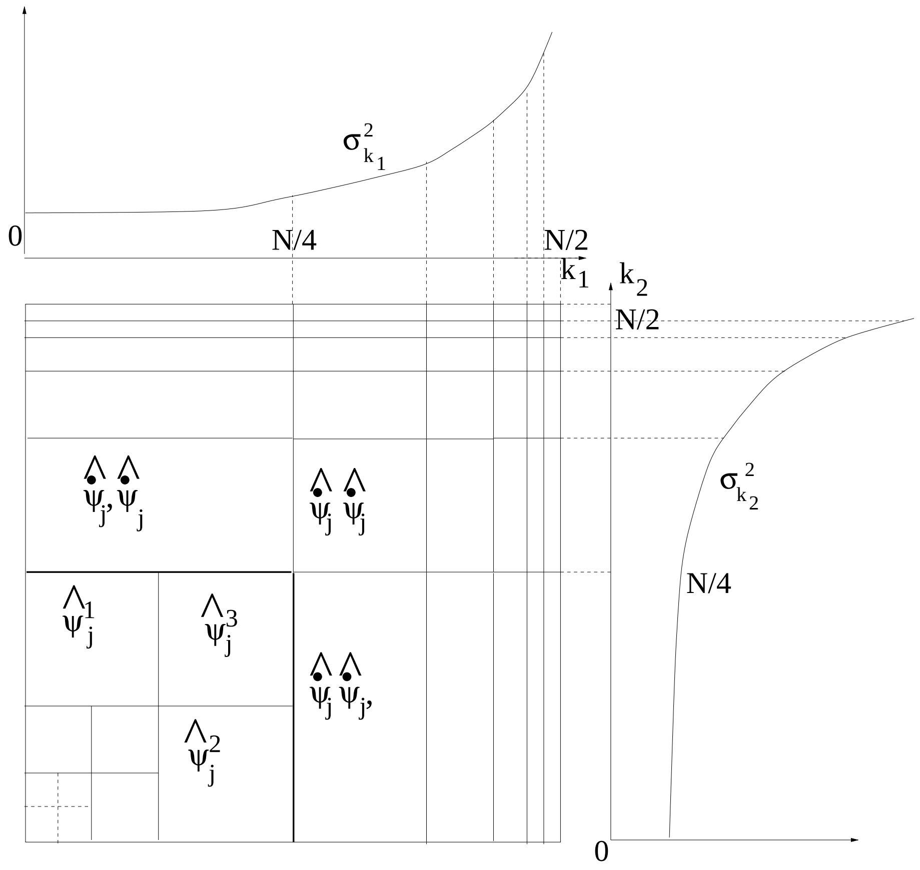


Figure 10.13: The mirror wavelet basis segments the frequency plane $(k_1, k_2)$ into rectangles over which the noise variance $\sigma^2_{k_1,k_2} = \sigma^2_{k_1}\,\sigma^2_{k_2}$ varies by a bounded factor. The lower frequencies are covered by separable wavelets $\psi^k_j$, and the higher frequencies are covered by separable mirror wavelets $\dot{\psi}_j\,\dot{\psi}_{j'}$.