1 Multiresolution decomposition

features of MRD that are not inherent in the Fourier decomposition according to **?**:

  - the peak in multiresolution cospectra depends mostly on the width of the dominant (local) flux events whereas the wavelength of the peak in Fourier cospectra depends on the principal periodicity
  - Each mode of the multiresolution decomposition corresponds to a simple unweighted (nonoverlapping) moving average and thus, satisfies the rules of Reynolds averaging.
  - N arithmetic operations (compared to N log(N) for FFT)
  - Each mode of the multiresolution decomposition corresponds to a simple unweighted (nonoverlapping) moving average and thus, satisfies the rules of Reynolds averaging.
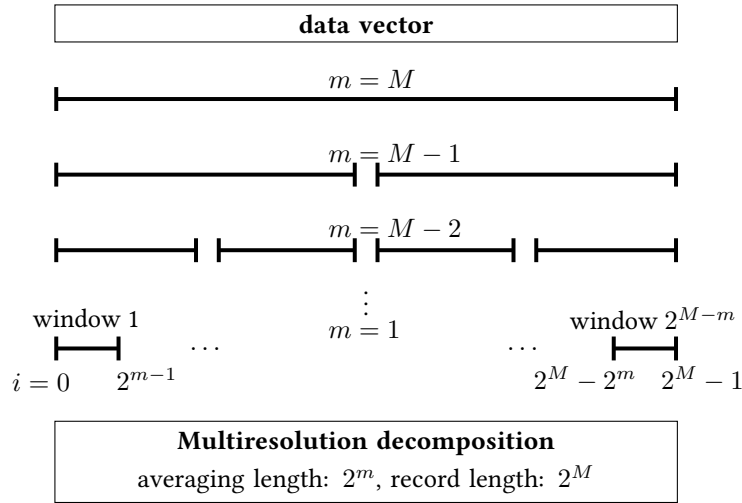

Figure 1: Schematic visualization of the multiresolution decomposition procedure according to **?**.