Ah-001 Room: C401 Time: June 8 9:00-9:45

Wavelet Analysis of Observational Data

Michio Yamada[1]

[1] Grad. School of Math. Sci., Univ. of Tokyo

Wavelets give an efficient expansion of data, in that smaller number of expansion coefficients, than in other expansions including Fourier one, are able to reconstruct the original data. This property leads to an application to, for example, data base and data generation. Wavelets are

applied also to time-frequency analysis of geoscientific time-series and to image analysis. Orthogonal/Biorthogonal wavelets are suitable for data analysis with filter operation. Biorthogonal wavelets are so flexible that it can be modified to satisfy other conditions.