

## Numerical experiments on the feasibility of a method estimating dispersion curves using correlated microtremors

# Ikuo Cho[1]

[1] Architecture, Faculty of Engineering, Science Univ. of Tokyo

Although the method of Henstridge (1979) can be applied to correlated and uncorrelated microtremors in order to estimate dispersion curves and directional information, any application has not been reported. We have made feasibility tests on the method numerically. It reveals that six seismometers are enough to obtain a wide band of wavelength ranging from  $2R$  to  $15R$  ( $R$  is array radius). Errors in positioning seismometers ( $< 0.1R$ ) do not lead to a serious problem. However, a slight variation in installation conditions of seismometers is followed by incorrect results of dispersion curves.