Wavelet-Based Method to Detect Gravitational Wave Bursts

Kazuhiro Hayama
TAMA Project,
National Astronomical Observatory of Japan
kazuhiro.hayama@nao.ac.jp
Estimation of G.W. burst waveforms

G.W. bursts:
- Oscillation of spacetime around core collapses
- Merger phase of inspiral

Need to extract their waveforms without using a priori information about their waveforms.

Squared error is

0.06 0.2