

Tsunamis in galaxy clusters: heating of cool cores by acoustic waves

Y. Fujita, T. K. Suzuki, & K. Wada (2004, ApJ, 600, 650)

- **Motivation**

Solve the cooling flow problem

- **Mechanism**

Cluster merger, galaxy motion

→ Turbulence → Acoustic waves

→ (Non-linear effect) → Weak shocks

→ Heat the cluster core

- **Analytical Analysis, Numerical Simulations**

The mechanism may actually be working in clusters

