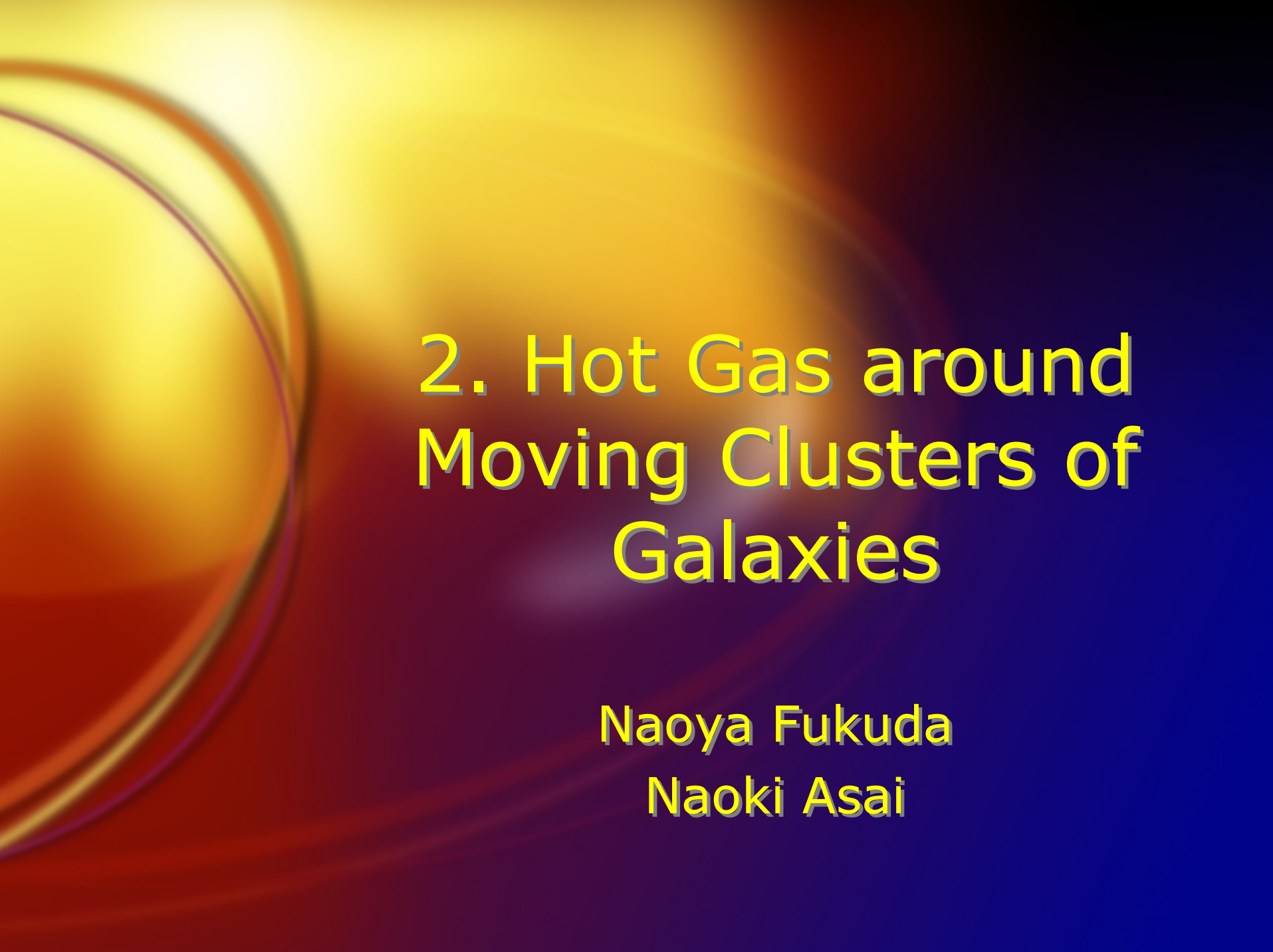




2. Hot Gas around Moving Clusters of Galaxies

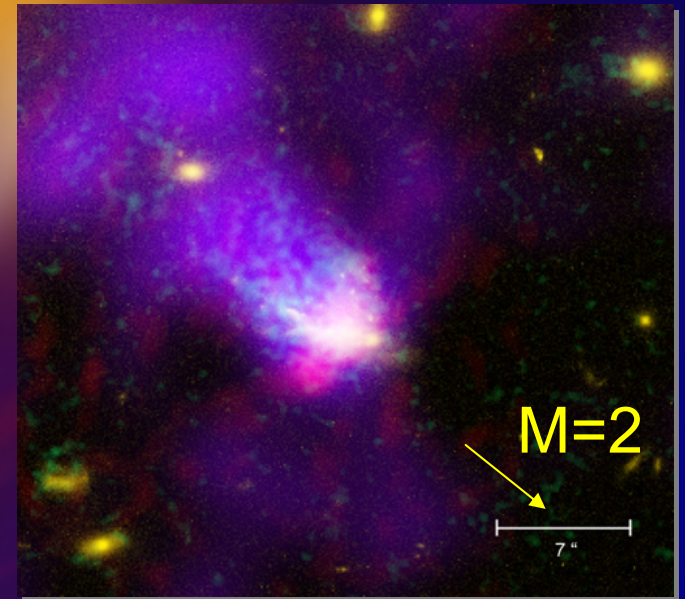
Naoya Fukuda
Naoki Asai

C153 in A2125

☞ C153

☞ supersonic
motion ($M=2$)

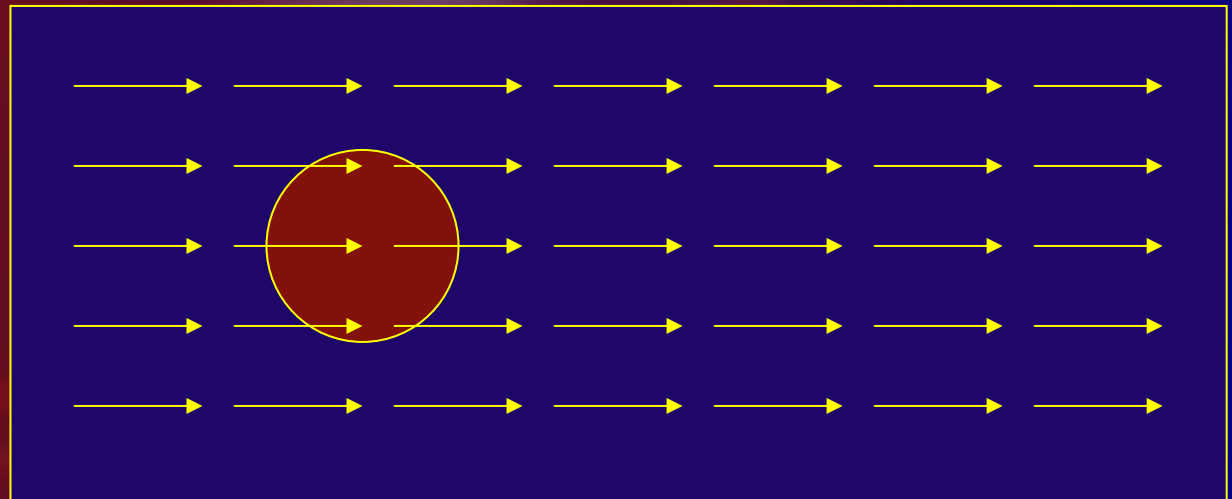
☞ cool X-ray tail



[Chandra Web Page]

Numerical Model

- ☞ Hot gas around a galaxy
- ☞ Flowing Intergalactic Medium ($M=2$)
→ moving hot gas around a galaxy
- ☞ 2D MHD with heat conduction



Model Parameters

☞ Unsymmetrical Structure

☞ plasma beta : β

☞ Angle between flow and magnetic field : θ

☞ $\theta = 0^\circ$, 30° , 45° , 60° , 90°