

Visualization of galaxy collision and first run of large scale structure simulation

Third presentation for the Scientific Modelling Computer Lab

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Collision of galaxies: visualization with gadgetviewer

Introduction:

- evolution of galaxies
- Andromeda and Milky Way
- Calabrò, A. et al. 2019, A&A 632, A98
- Chen, Guangwen et al. 2018, ApJ, 864, 1
- Kotarba, H. et al. 2011, MNRAS, 415, 3189

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Visualization:

- Gadgetviewer
- <https://ezgif.com/apng-maker>

Collision of galaxies: Gadgetviewer

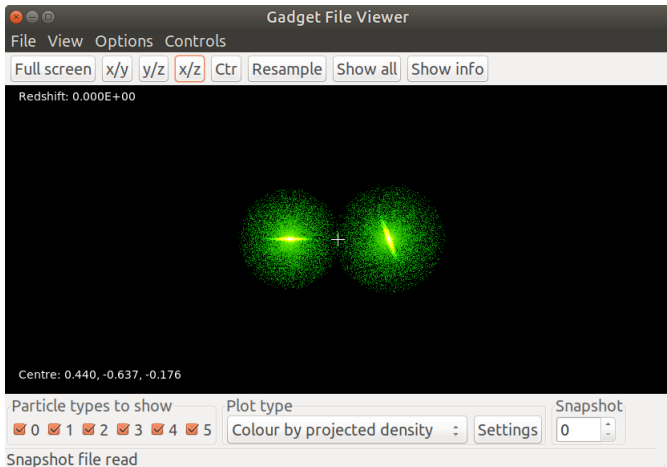


Figure: The Gadget File Viewer program.

Collision of galaxies: Videos

→ with and without dark matter

Collision of galaxies: Videos

→ with and without dark matter

<https://github.com/MariaPalfi/Scientific-modelling-lab>

Making glass

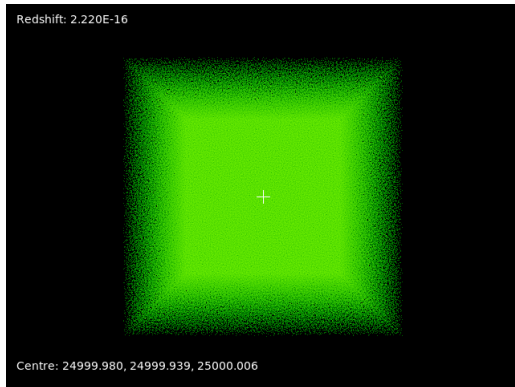
Initial conditions:

- N-GenIC
- 2LPTic

Making glass

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Following steps

- finish this large scale structure simulation
- finish installing Gadget-2 to Atlasz