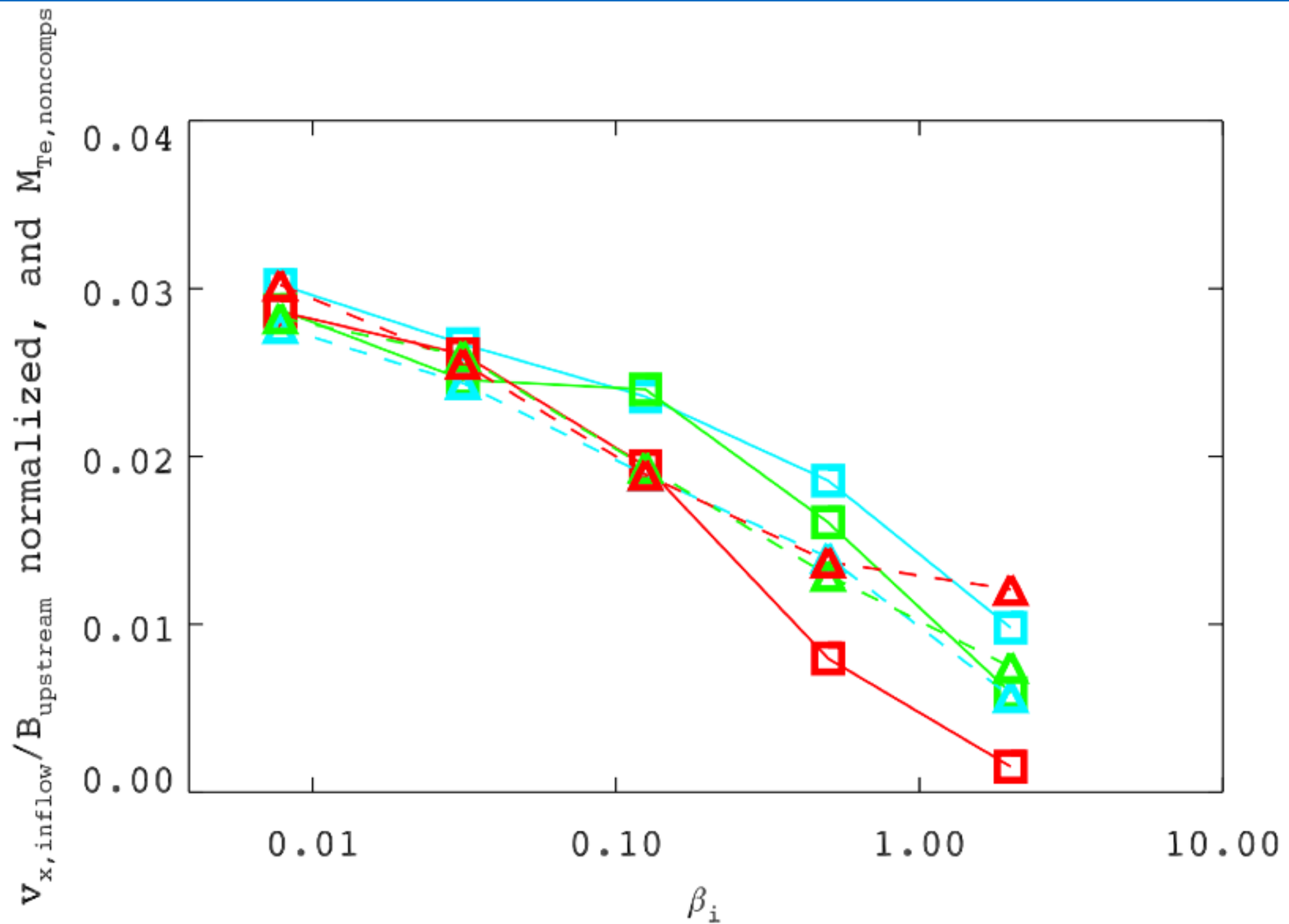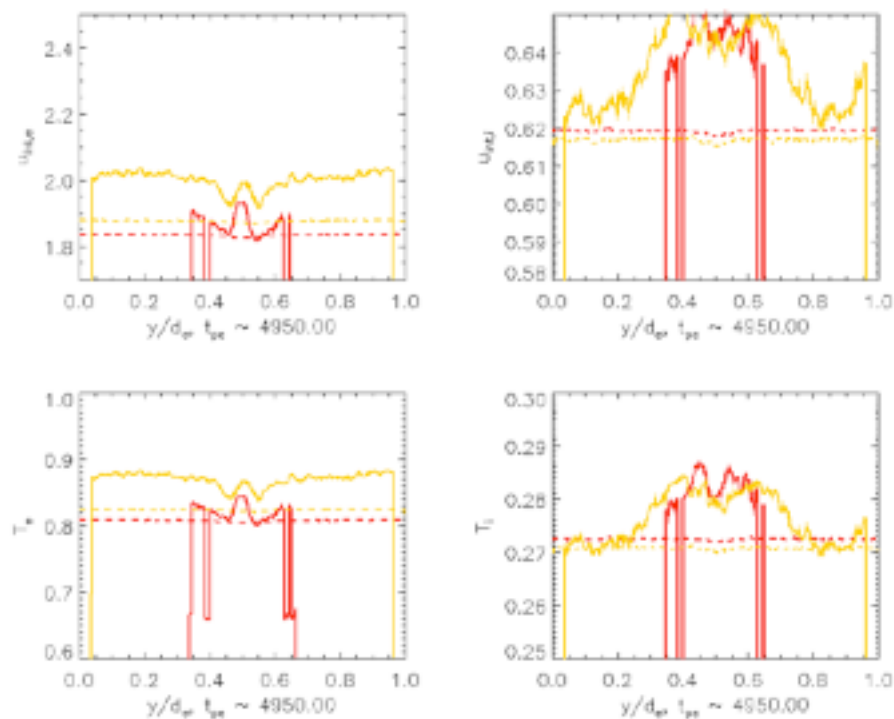# Diffusion region heating vs. model

Heating should not depend on nonphysical parameters

- Check for convergence by varying computational parameters
- To trust the numerical results, need to make sure numerical heating is relatively small
- Particles per cell, domain size, boundary conditions, etc.

ppc = 64 (yellow), ppc = 256 (red)

m_y = 4096 (green), 8192 (yellow), 16384