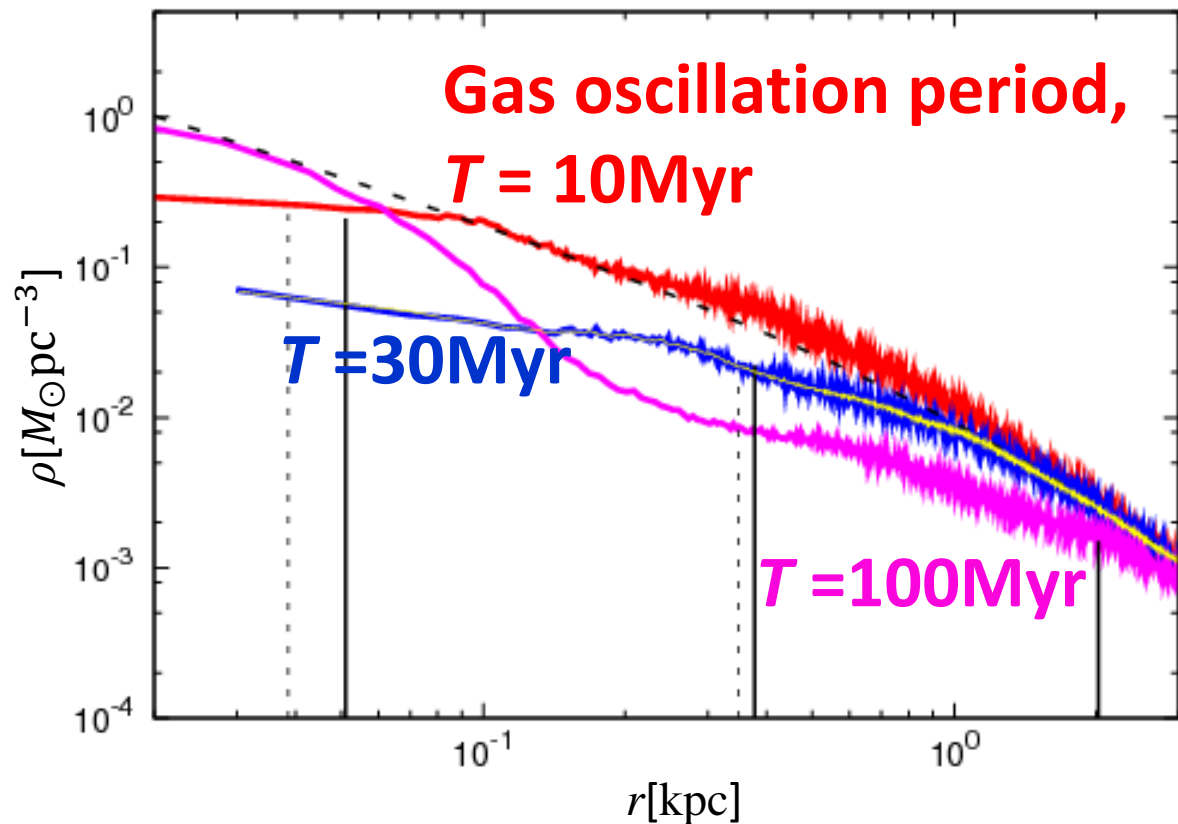


The link among density structures, scaling laws and the too-big-to-fail problem of CDM halos

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- Resonances between DM particles and density waves play crucial roles to flatten the central cusp of CDM halos (Ogiya & Mori, in press)
- Considering cusp shallowing,
 - the observational laws of DM halos are naturally reproduced (Ogiya et al. 2014)
 - the Too-Big-To-Fail problem can be avoided (Ogiya & Burkert, in prep.)