

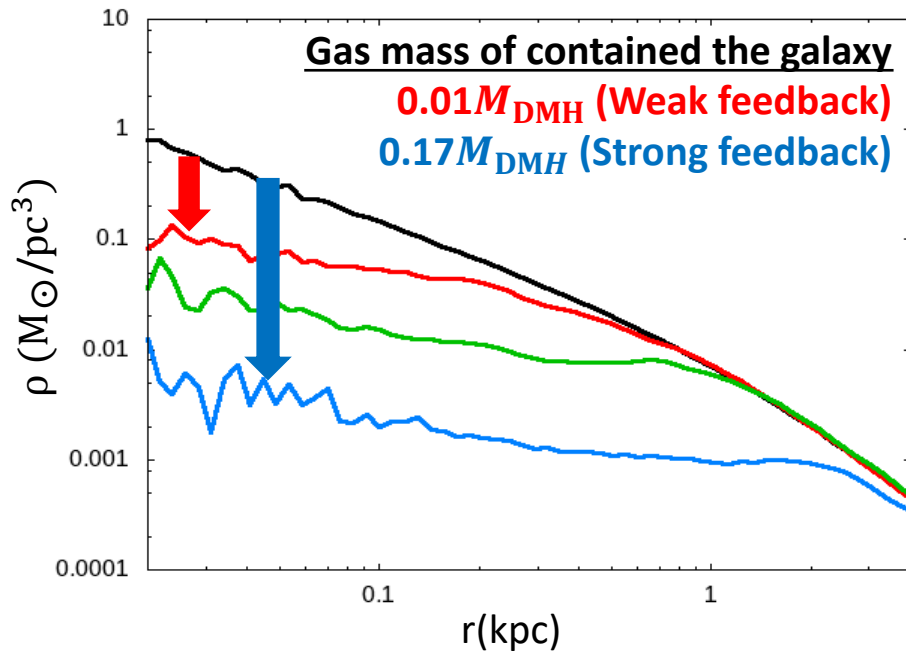
# Dynamics of the cusp-to-core transformation in the cold dark matter halos

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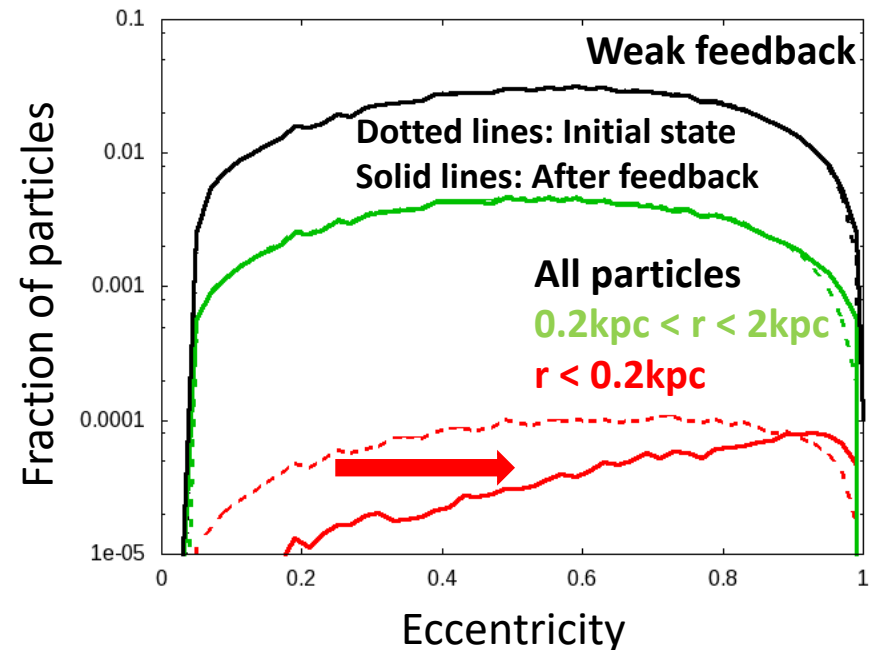
We used computer simulation to investigate **the dynamical response of the cold dark matter halo (DMH)** due to the recursive change of the gas potential driven **by the gas accretions and outflows in starburst galaxies.**

Density profile of the DMH after the feedback



- Even in the case of weak feedback, the cusp-to-core transformation occurred.

Eccentricity distribution of the DMH



- The cusp-to-core transformation is caused by the increase of particles moving in an orbit with large eccentricity.