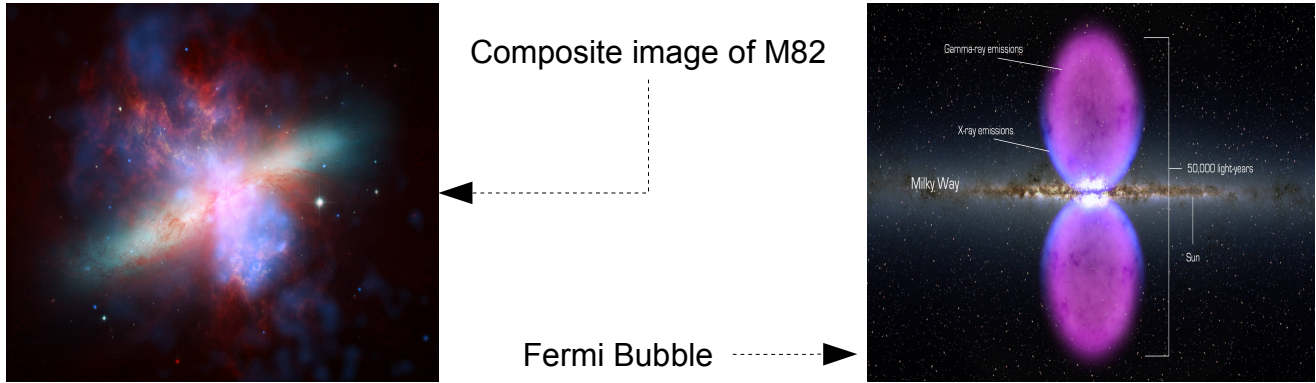
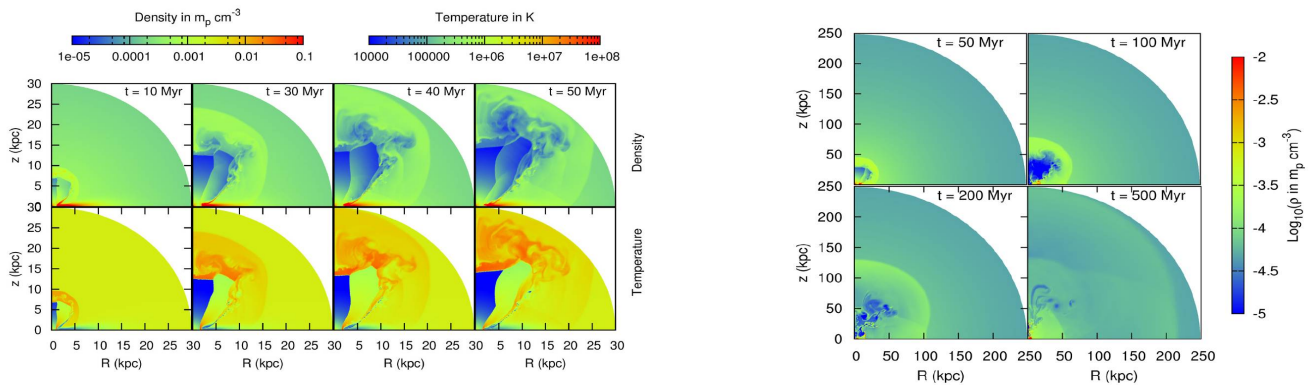


INTERACTION OF GALACTIC OUTFLOWS WITH HALO GAS AND FERMI BUBBLES

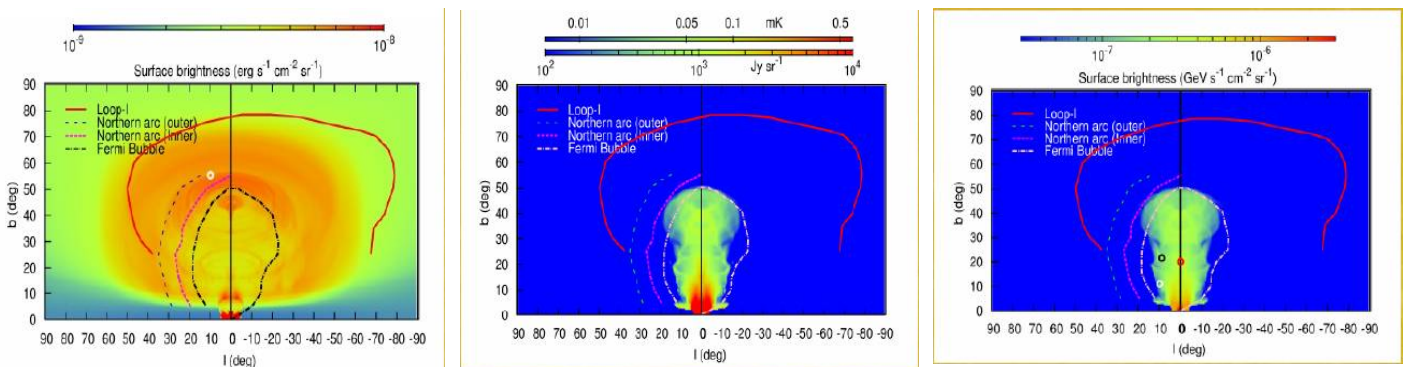
Abstract: Feedback in galaxies help regulating the star formation and enriching the IGM with metals. A large number of supernovae at the galactic centre can give rise to large scale gas outflow and have maximum impact on the feedback and IGM enrichment. Of course the impact depends on the presence of the background medium like a hot halo surrounding the galaxy.



Effect of halo gas on galactic outflows



Emission from galactic outflows: Fermi Bubbles (FBs)



- 1) Interaction of outflow with the halo gas gives rise to multiphases where almost half of the outflowing mass is in hot and half is in warm phase ($T < 3 \times 10^5$ K). The interaction can give rise to cold clouds.
- 2) The interaction of halo medium and the supernovae driven outflow can explain the FBs in our Galaxy.