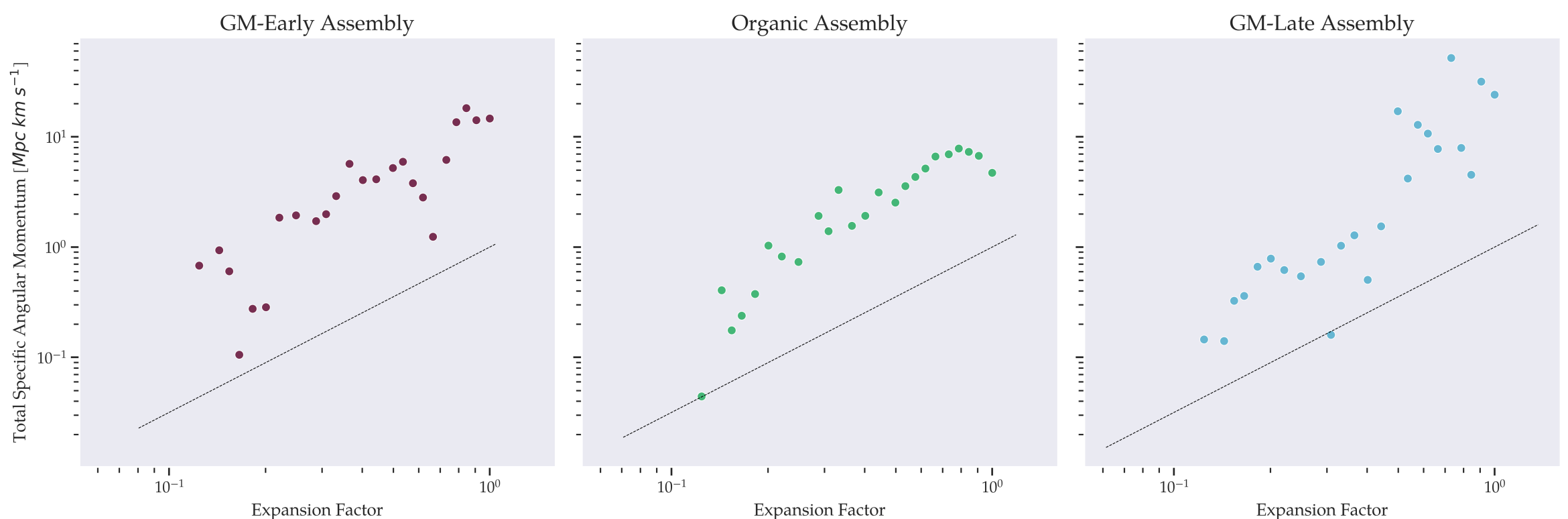
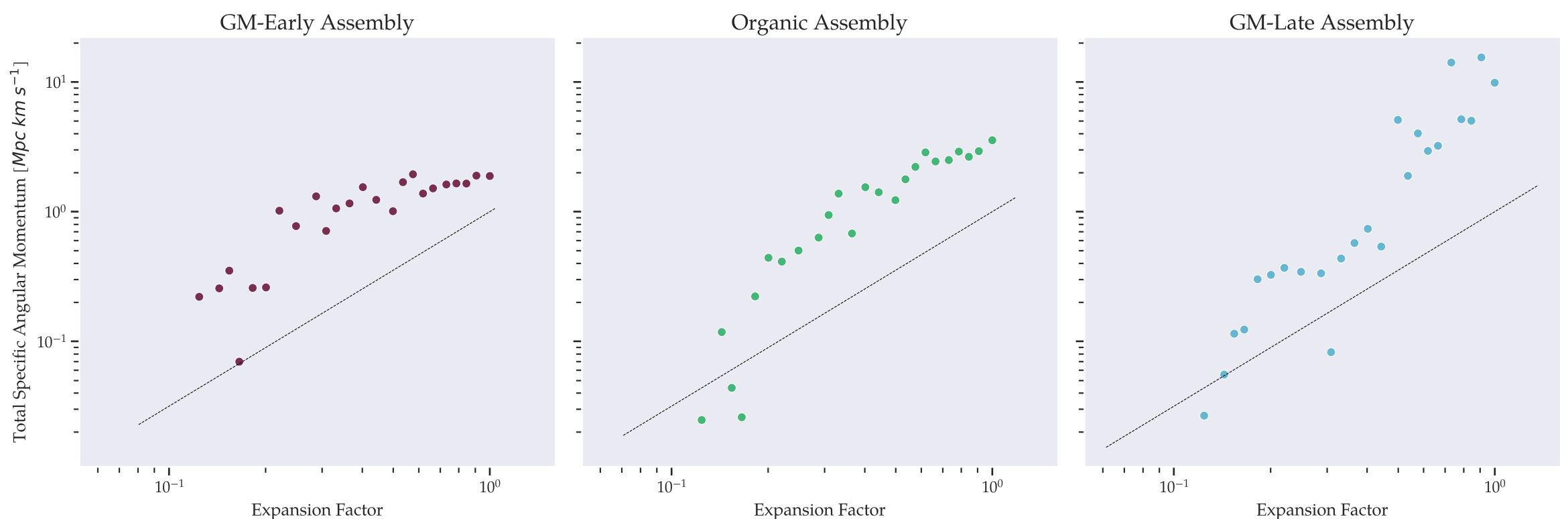


(a) Total specific angular momentum vs expansion factor plot for three assembly modes.



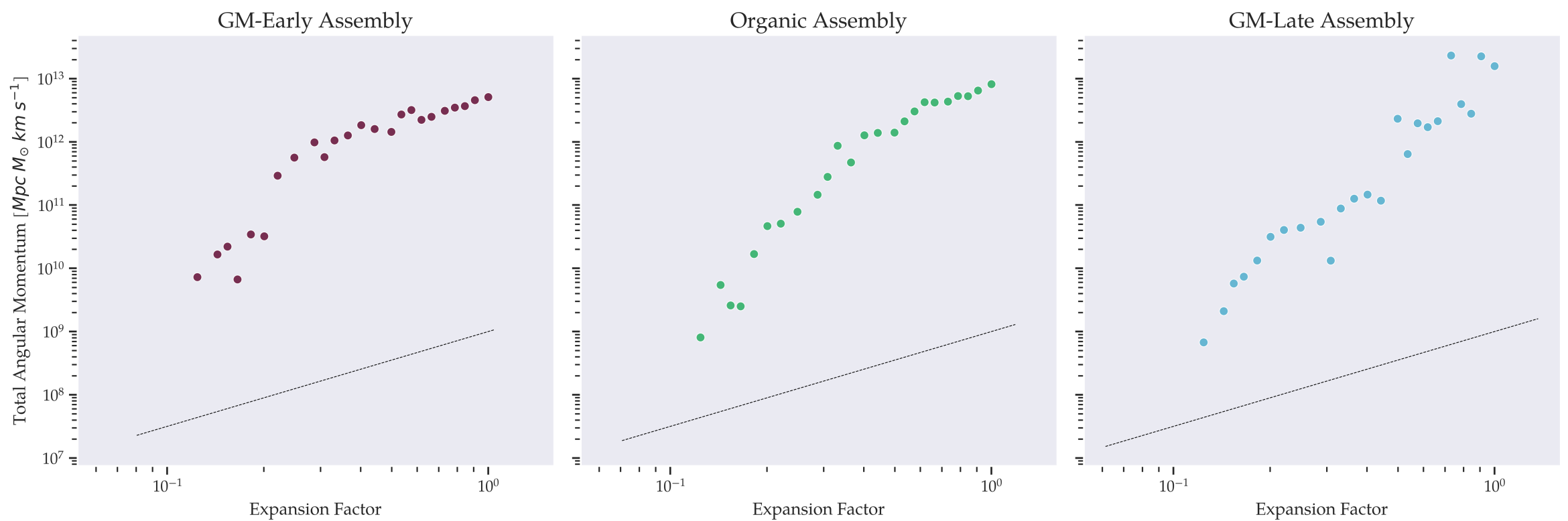
(b) Total specific angular momentum vs expansion factor plot for *baryon* particles in three assembly modes.



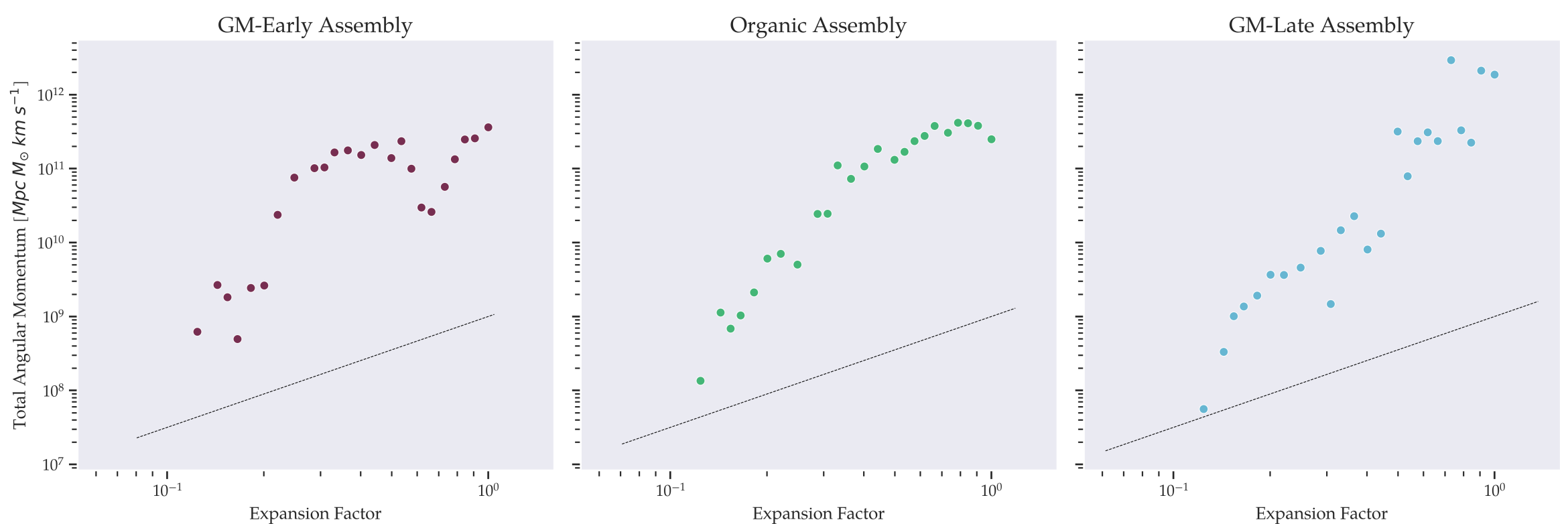
(c) Total specific angular momentum vs expansion factor plot for *cold dark matter* particles in three assembly modes.

Figure 1: Specific angular momentum vs expansion factor (a) plots, overlaid by $a^{3/2}$ dashed black line.

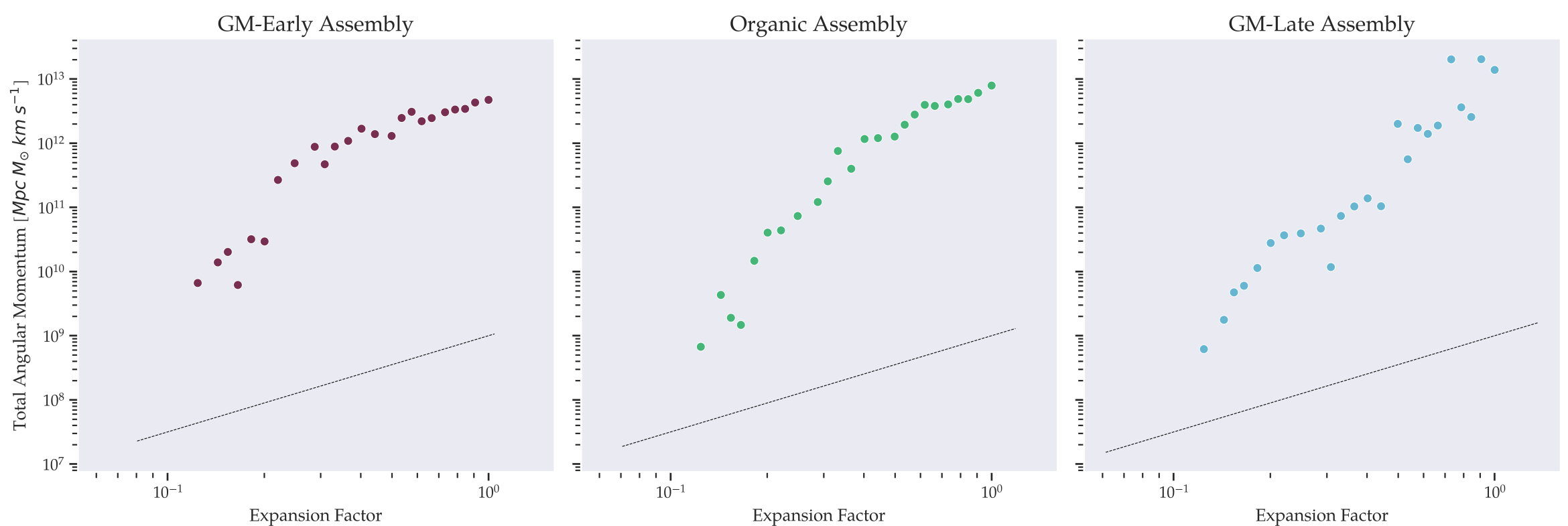
- The bottom two subplots (for baryons and CDM, respectively) add up to give the uppermost subplot (baryons and CDM combined).
- As speculated earlier last week, at lower redshifts, $L_{specific}$ is rising to higher values in GM-Late case than in Organic case.
- Overall trends seem roughly consistent with the $a^{3/2}$ law.
- The evolution is not as smooth as that obtained for inner 30kpc data, especially for GM-Late data at lower redshifts.
- To compare figure 3 Zavala et al. (2016), there are discrepancies, especially in disc-dominated – GM-Late case. Total specific angular momentum does not seem to decline at lower redshifts.
- When compared to figures 6 and 3-left from Zavala et al. (2008), the trends look somewhat fine, especially for the dark matter halo.



(a) Total angular momentum vs expansion factor plot for three assembly modes.



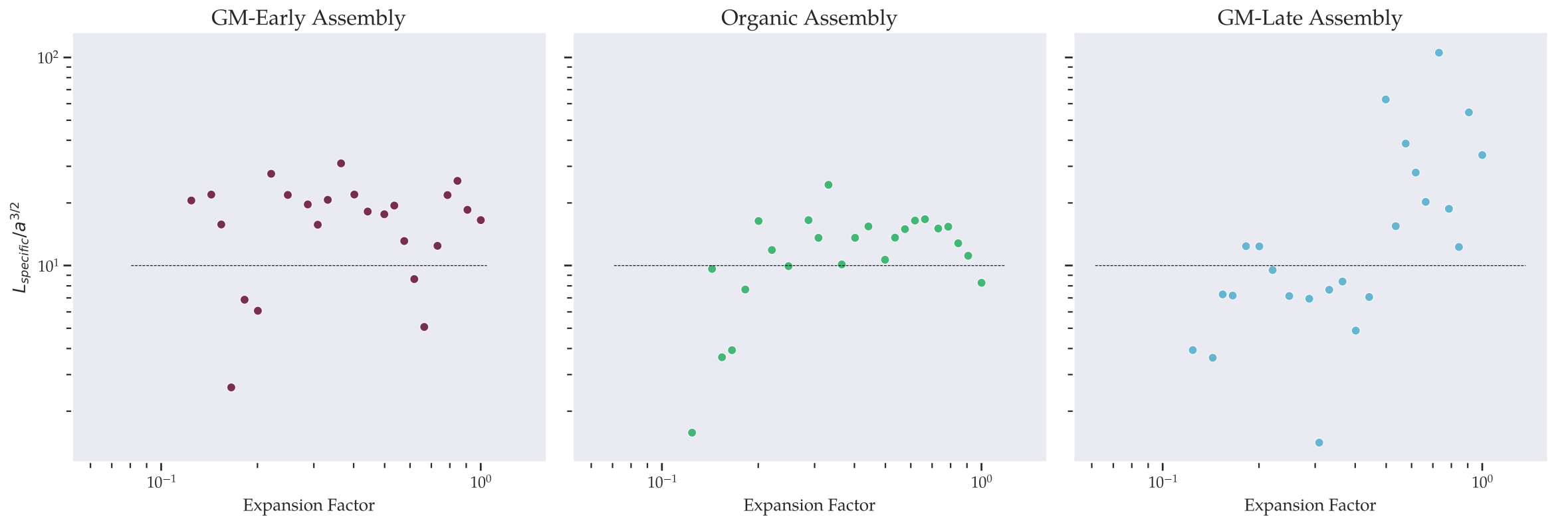
(b) Total angular momentum vs expansion factor plot for *baryon* particles in three assembly modes.



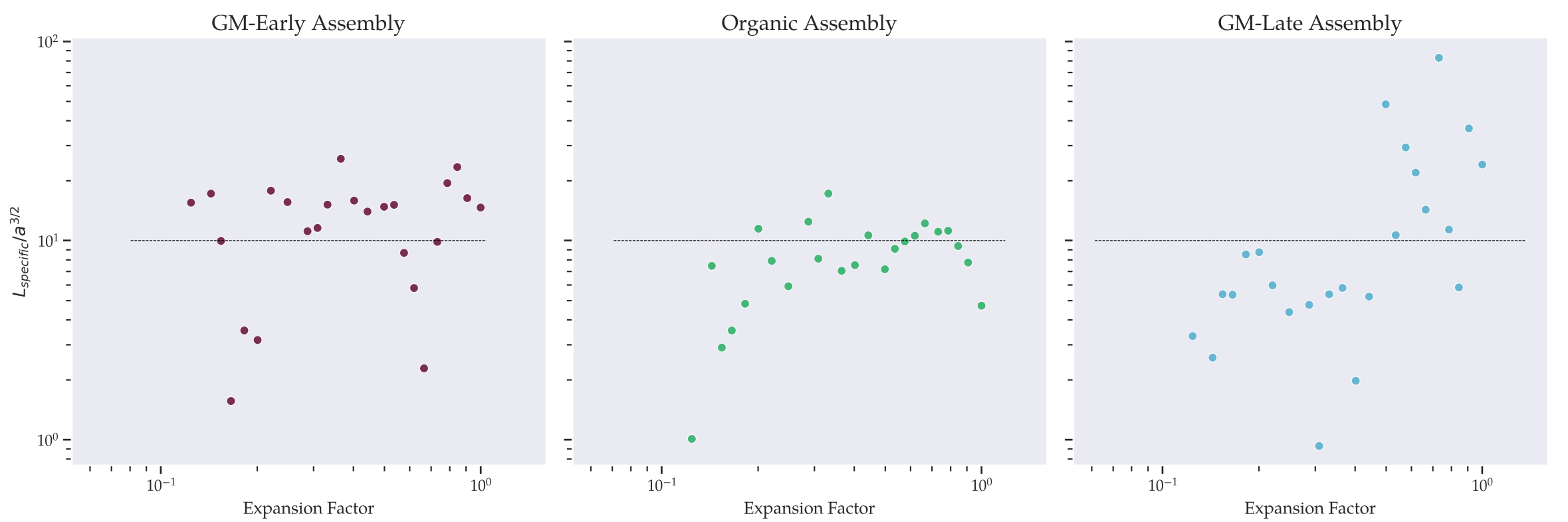
(c) Total angular momentum vs expansion factor plot for *cold dark matter* particles in three assembly modes.

Figure 2: Total angular momentum vs expansion factor (a) plots, overlaid by $a^{3/2}$ dashed black line.

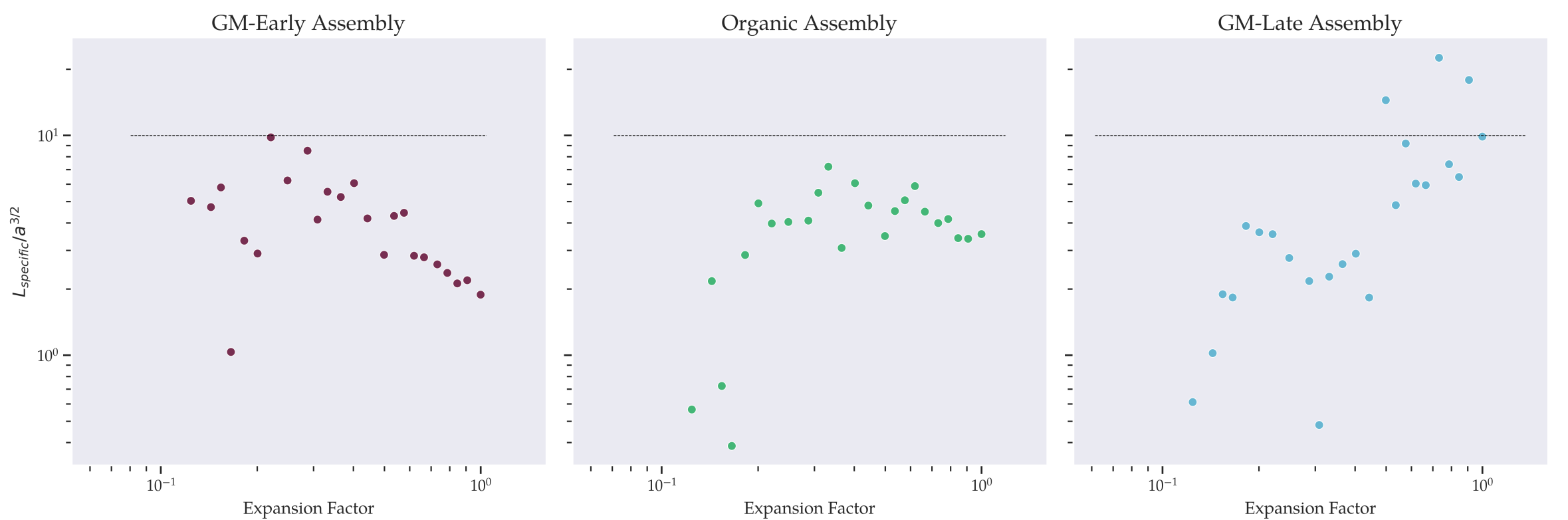
- Final mass of baryons is of the order of 10^{11} . So, angular momentum and specific angular momentum values seem roughly consistent.
- With dark matter halo mass of the order of 10^{-32} , values of total angular momentum of cold dark matter also seems fine.
- It might be of interest that the total angular momentum is still increasing faster than $a^{3/2}$. (Although I am not sure, this rise seems slightly gradual when compared to last week's plots.)



(a) Total specific angular momentum divided by expansion factor raised to the 3/2 exponent vs expansion factor plot for three assembly modes.



(b) Total specific angular momentum divided by expansion factor raised to the 3/2 exponent vs expansion factor plot for *baryon* particles in three assembly modes.



(c) Total specific angular momentum divided by expansion factor raised to the 3/2 exponent vs expansion factor plot for *cold dark matter* particles in three assembly modes.

Figure 3: Specific angular momentum divided by expansion factor raised to the 3/2 exponent vs expansion factor (a) plots, overlaid by $a^{3/2}$ dashed black line.

- I just hope I plotted these correctly because these don't really look fine to me.
- Divided the y axes values with $a^{3/2}$ in order to compare with figures 3 and 5 of Zavala et al. (2008).

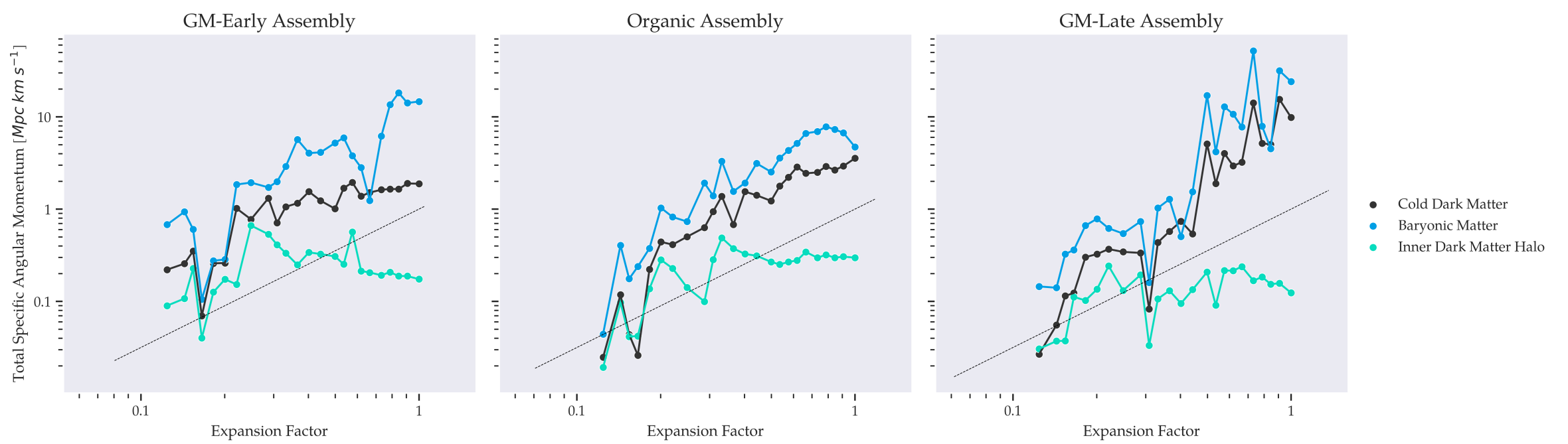


Figure 4: Specific angular momentum variation for baryonic as well as inner and complete cold dark matter halo as a function of expansion factor for three assembly modes.