Gas density (high resolution) d) Federrath et al. (2014) a) Threshold-based model b) Semenov et al. (2016) c) Evans et al. (2022) 15 10 -10 -15[kpc] 10 -1010 -1010 -1010 -10x [kpc] x [kpc] x [kpc] x [kpc]