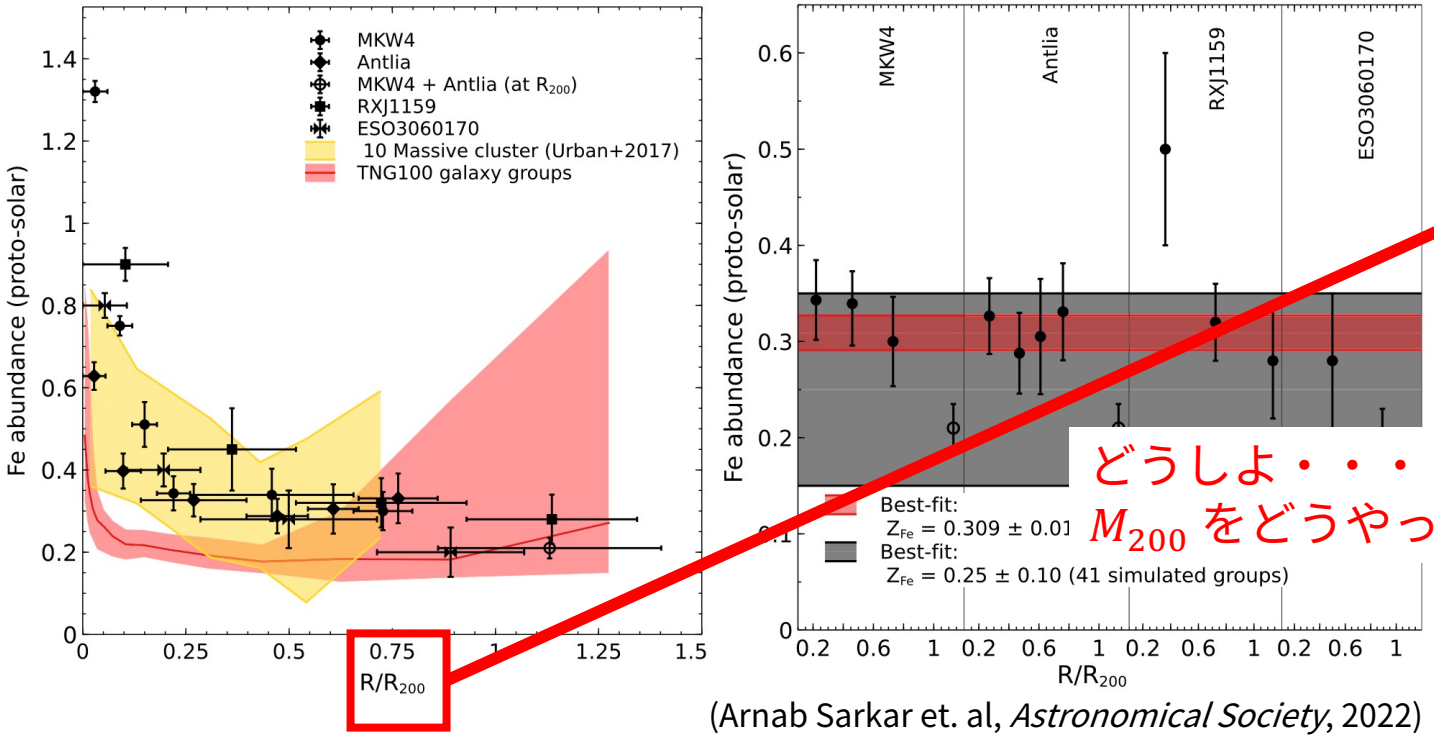
2023/11/15 銀河団MTG (西濱大将@B4)



(Arnab Sarkar et. al, *Astronomical Society*, 2022)

virial radius $R_{200} = \left[\dfrac{G\overbrace{M_{200}}^{\text{virial mass}}}{100\,\Omega_m(z)H(z)^2}\right]^{1/3}$

(overdensity $\Delta_c = 200$)

(citation: virial mass-Wikipedia)

どうしよ・・・

M_{200} をどうやって導出しようか・・・

SubhaloCM	float32	N,3	$ckpc/h$	Comoving center of mass of the Subhalo, computed as the sum of the mass weighted relative coordinates of all particles/cells in the Subhalo, of all types.
SubhaloMass	float32	N	$10^{10}M_{\odot}/h$	Total mass of all member particle/cells which are bound to this Subhalo, of all types. Particle/cells bound to subhaloes of this Subhalo are NOT accounted for.

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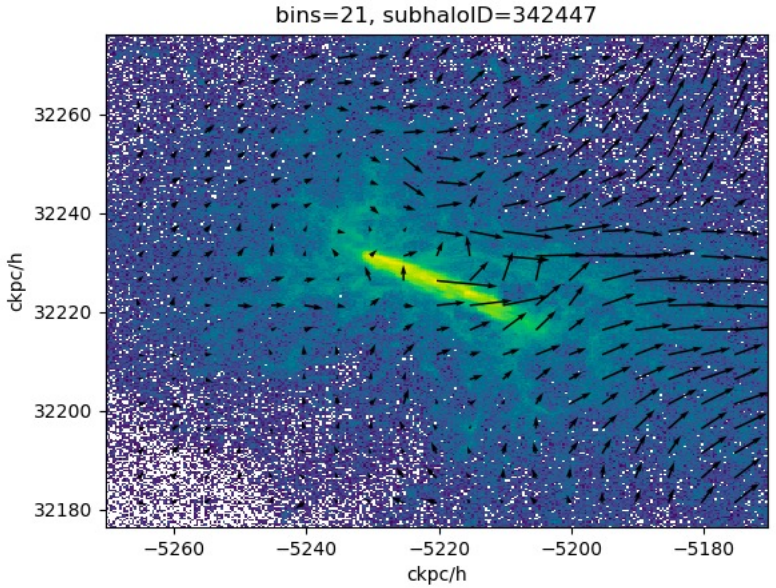
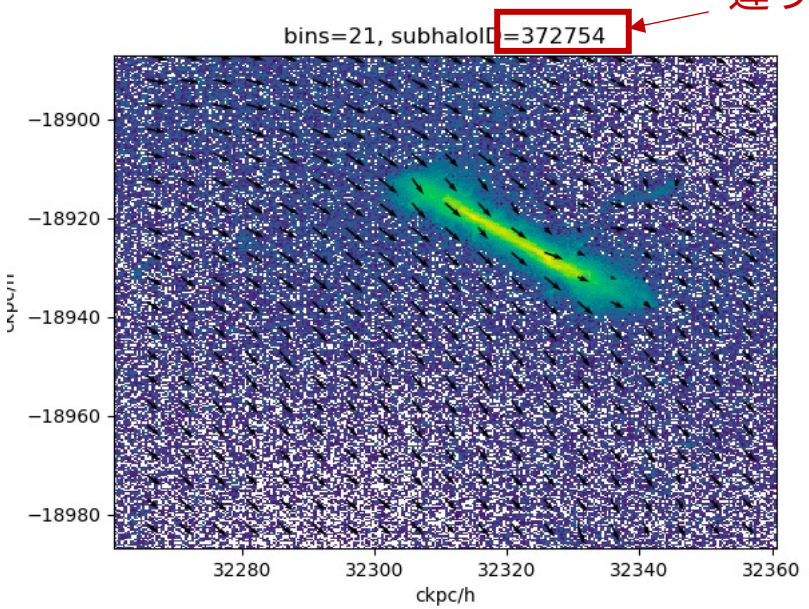
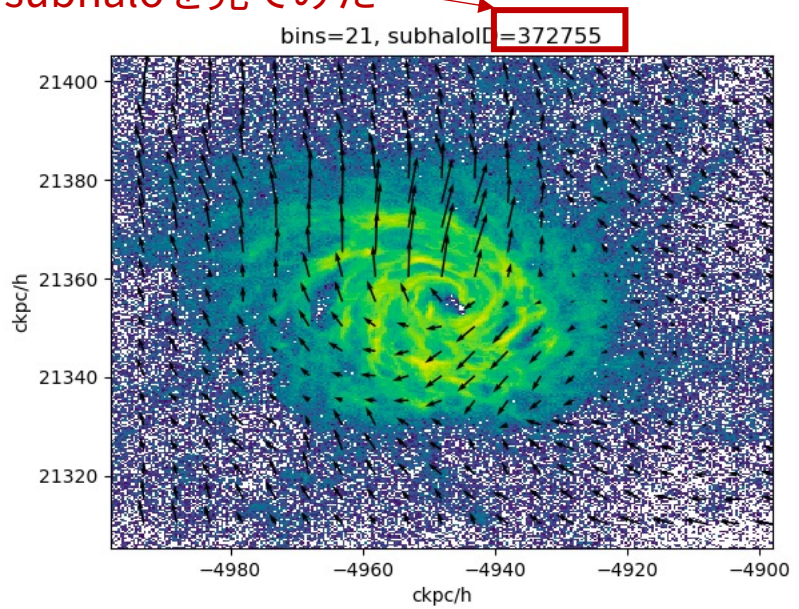
違うsubhaloを見てみた



outflowが片方にしか出ていない



outflowが出ていない



edge-onになってない

■ edge-onの導出方法

- 慣性モーメントテンソルを導出し、回転行列 R を導出

  → R を作用させてface-on

  - これに x 軸回りに90度回転させている

再考＆コード修正