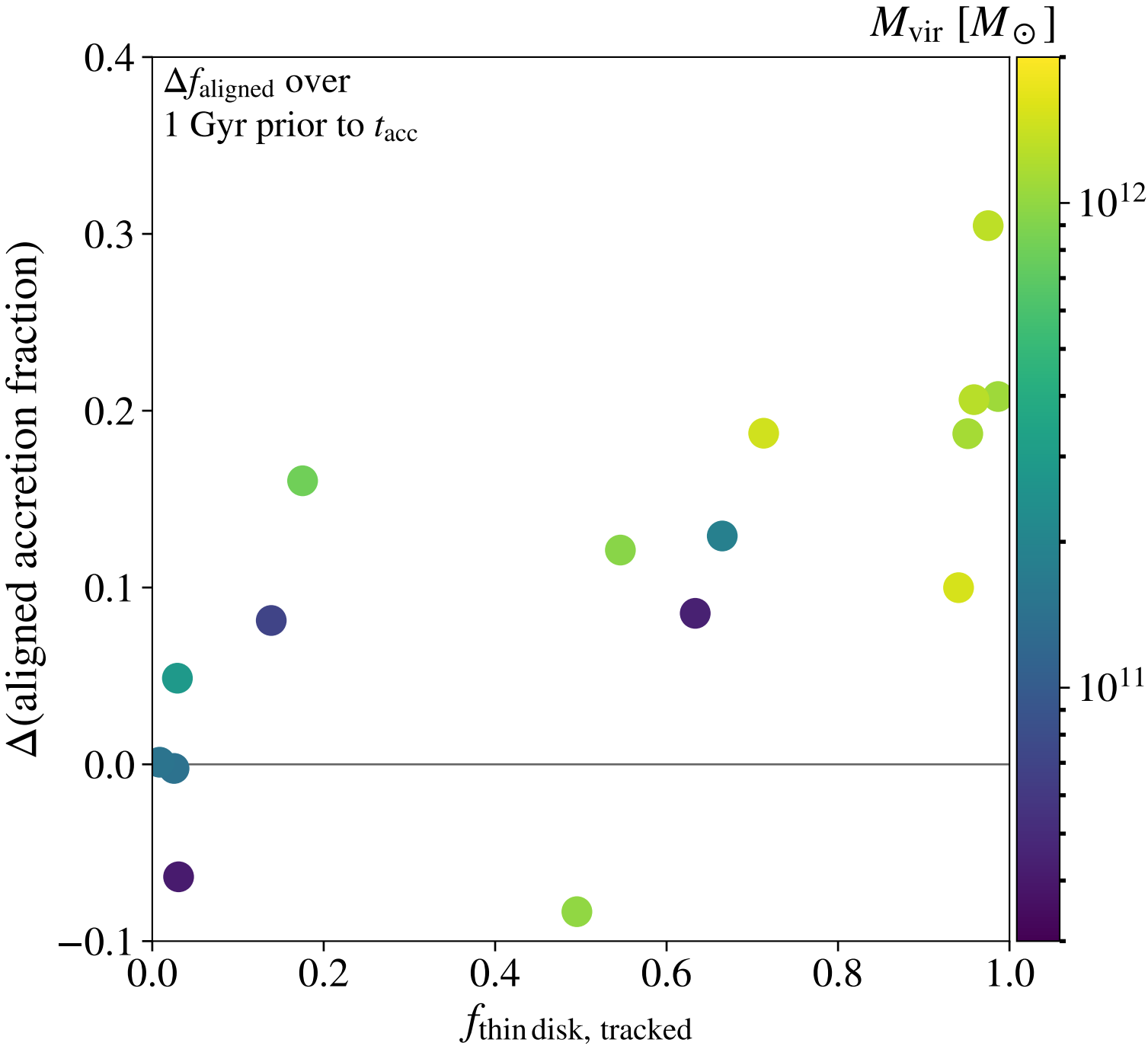
$M_{\rm vir}$ [$M_\odot$]
10^{12}
10^{11}
$\Delta f_{\rm aligned}$ over
1 Gyr prior to $t_{\rm acc}$
Δ(aligned accretion fraction)
$f_{\rm thin\,disk,\,tracked}$
0.4
0.3
0.2
0.1
0.0
−0.1
0.0
0.2
0.4
0.6
0.8
1.0