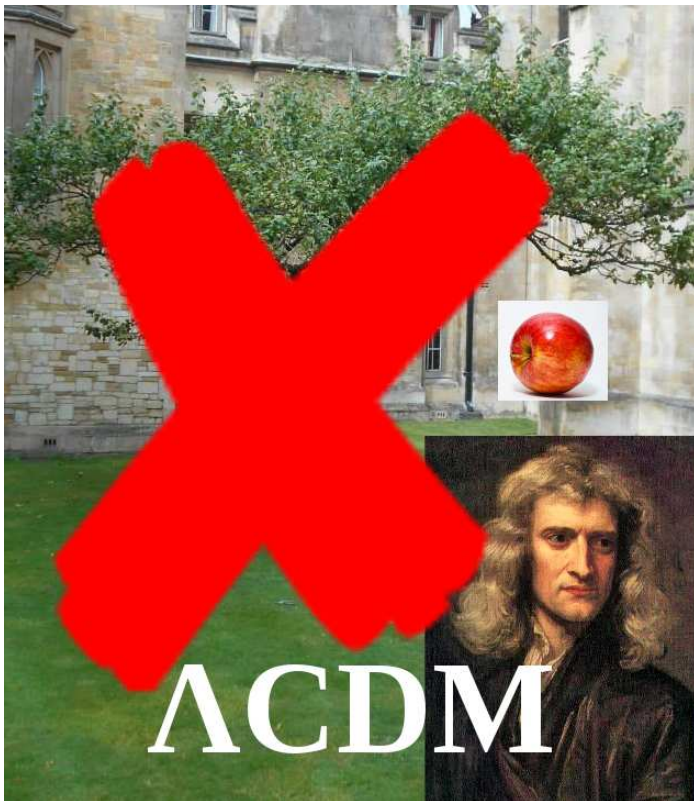
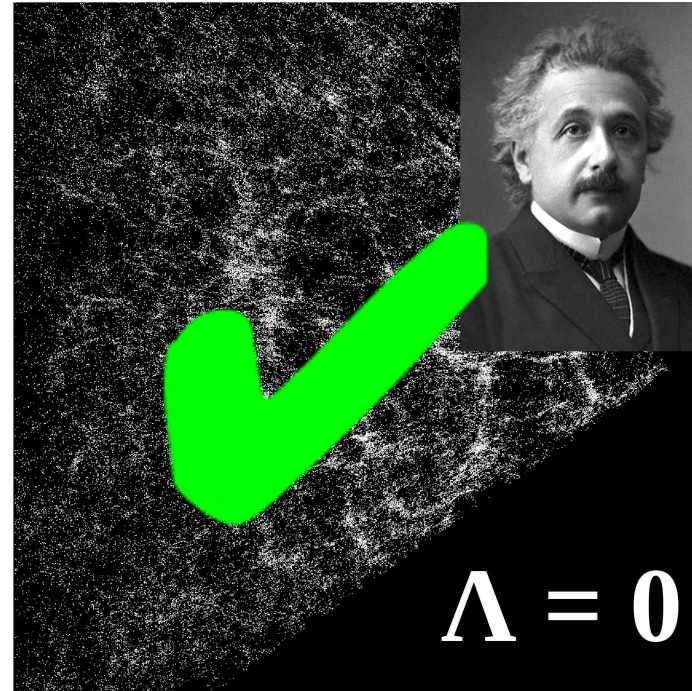


$a(t)$ (Newt) vs $a_{\text{eff}}(t, P_k)$ (Einst)

FLRW — découplage :
 $a(t), P_k(k)$ indépendantes
 $a = f(t)$



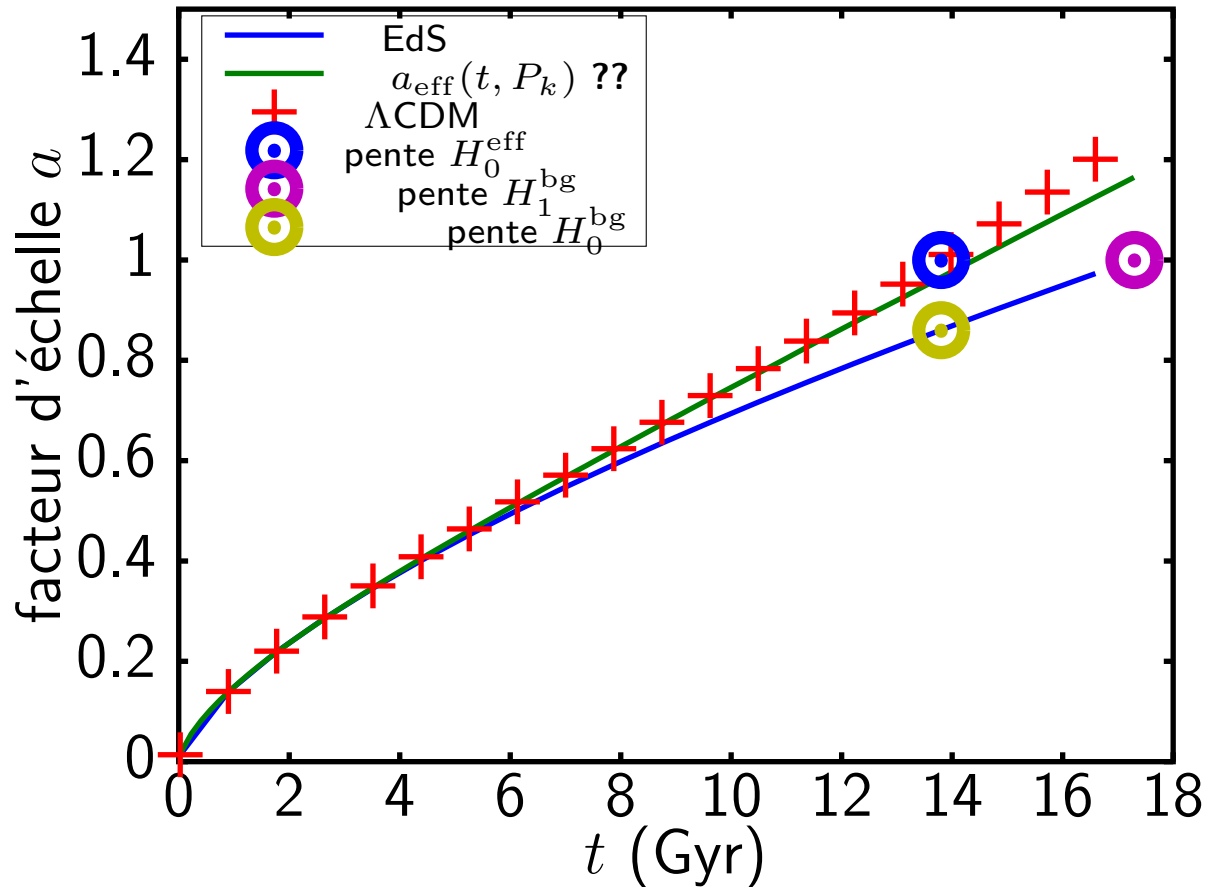
Buchert :
moyennes scalaires
 $a_{\text{eff}} = f(t, P_k)$



?

$a(t)$ (Newt) vs $a_{\text{eff}}(t, P_k)$ (Einst)

obsvns $\Rightarrow H_0^{\text{eff}}, H_1^{\text{bg}}, H_0^{\text{bg}} = 67.74, 37.7, 47.24 \text{ km/s/Mpc}$
 ([arXiv:1608.06004](https://arxiv.org/abs/1608.06004) Roukema+2016)



EdS +
 RZA(P_k) \Rightarrow
 $\sim \Lambda\text{CDM} ?$

RZA = relativistic Zel'dovich approximation (PRD [arXiv:1303.6193](https://arxiv.org/abs/1303.6193))

TCfA+CRAL simus N -corps + RZA : *travaux en cours...*