## I.2) Equation of evolution for baryons

Baryons = non-relativistic, equivalente preserveless fluid.

Described by (Sb, Ob) only, with continuity + Euler equations including coupling ferm (with photons, through electrons).

Proper way to obtain this term: write Baltzmann equation, incorporation Thomson scattering term (btw Yande, and using hight-coupling limit for Coulomb scattering

Result: 
$$58b = 9b + 34$$
  
 $29b = -\frac{2}{5}9b - k^{2} + \frac{4}{5} = \frac{2}{5}ane \sigma_{7} (98 - 9b)$ 

Remark: coupling term would vanish in limit Pb-00. Interpretation: if mb-000, impossible to move baryons, and hence to move electrons: then baryons anothered by Thomson scattering of 8 over e.

Description of cosmological perturbations in Fourier space can be inferred from:

\* constraint equations: Einstein - or of, 4= ....