- **What we did:** Large scale structure simulations of 4 different cosmologies
- **What you got:** 16 files, 4 linear power spectra (all at z=0), 4 nonlinear power spectra, 4 mass functions, 4 “pretty pictures”
- **In addition:** 4 sets of cosmological parameters
- **Tasks:**
  - Look at 4 parameter sets and identify the different physics included in the 4 different simulations
  - Think about what these different physics effects would do to the power spectrum, the mass function etc.
  - Assign one linear P(k), one nonlinear P(k), one mass function, one “pretty picture” to each cosmology
  - Write down for each model, which files belong to it (hand in your results)
  - Vote for a “spokes person” to present your results and explain how you derived your conclusions

M000

Omega_CDM = 0.2642
omega_b = 0.02222
Omega_nu = 0.0
Hubble = 0.6731
Sigma_8 = 0.829
n_s = 0.9655
w_0 = -1.0
w_a = 0.0

M001

Omega_CDM = 0.950956
omega_b = 0.02222
Omega_nu = 0.0
Hubble = 0.6731
Sigma_8 = 0.829
n_s = 0.9655
w_0 = -1.0
w_a = 0.0

M002

Omega_CDM = 0.2421
omega_b = 0.02222
Omega_nu = 0.02207
Hubble = 0.6731
Sigma_8 = 0.829
n_s = 0.9655
w_0 = -1.0
w_a = 0.0

M003

Omega_CDM = 0.2642
omega_b = 0.02222
Omega_nu = 0.0
Hubble = 0.6731
Sigma_8 = 0.829
n_s = 0.9655
w_0 = -0.7
w_a = 0.67

Group, points	M000	M001	M002	M003
1, 9	wmae	mexi	lobt	cssp
2, 8	wosp	mexe	lsbi	cmat
3, 8	wmae	mexi	pssp	cobt
4, 5	ws p	ce i	lo t	mm e
5, 5	wobt	mmxe	cesi	lsab
6, 4	wsbp	lmxt	mesi	coae
7, 5	cms	mex	wsb	loa
8, 9	coap	mext	lsbi	wmse
9, 11	coap	mexi	lsse	wmbt
answer	cobe	mexi	lsst	wmap