



Cargese - 6th July 2010



















































spectrum

$$\mathcal{P}_{\Phi} \propto k^{3} |\Phi_{k}|^{2} \propto A_{s}^{2} k^{n_{s-1}}$$
id. grav. waves:

$$\mu'' + \left(k^{2} - \frac{a''}{a}\right) \mu = 0 \qquad \mu \equiv \frac{h}{a}$$

$$\mu_{ini} \propto \frac{\exp(-ik\eta)}{\sqrt{k\eta}} \qquad \mathcal{P}_{h} \propto k^{3} |h_{k}|^{2} \propto A_{T}^{2} k^{n_{T}}$$
same dynamics + initial conditions \longrightarrow same spectrum

$$n_{T} = n_{s} - 1 = \frac{12\omega}{1+3\omega}$$

$$MB \text{ normalisation} \qquad A_{s}^{2} = 2.08 \times 10^{-10}$$

$$\longrightarrow \text{ bounce curvature} \qquad T_{0}a_{0}^{3\omega} \simeq 1500\ell_{P1}$$

$$2^{2}$$



