Abstract

The new result in generation of gravitational waves from reheating (Phys. Rev: D 79 (2009), 083511, astro-ph/0901.989).

"Constraints on primordial density perturbations from induced gravitational waves" (PhysRevD.81.023527 (2010) Astro-ph/0907.4073): Prof Wands and I consider the stochastic background of gravitational waves produced during the radiation-dominated hot big bang as a constraint on the primordial density perturbation on comoving length scales much smaller than those directly probed by the cosmic microwave background or large-scale structure. We place weak upper bounds on the primordial density perturbation from current data. Future detectors such as BBO and DECIGO will place much stronger constraints on the primordial density perturbation on small scales.

And finally if I have time I want to cover the gauge dependency issue of induced gravitational waves (Phys.Rev.D80:123526 (2009), astro-ph/0907.3618).