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# Duality And Perturbation Methods In Critical Point Theory

**duality in cosmological perturbation theory** - arxiv - under  $s$ -duality the equations of motion are form-invariant, while the initial conditions are invariant on the average in the sense of eq. (2.7). therefore, under  $s$ -duality, solutions of the perturbation equations properly normalized to zero-point fluctuations, are mapped into other normalized solutions with the same total hamiltonian. **duality and perturbation methods in critical point theory** - duality and perturbation methods in critical point theory cambridge university press . contents preface xi introduction xiii ... 4.1 duality and the location of critical points 67 4.2 the (ps) condition around a dual set ... 10.3 the marino-prodi perturbation method 189 **duality invariance of cosmological perturbation spectra** david wands school of computer science and mathematics, university of portsmouth, portsmouth po1 2eg, u. k. **duality, optimality conditions and perturbation analysis** - duality, optimality conditions, perturbation analysis 5  $val(p) = val(d)$ . it is well known that in the case of linear programming (i.e. if  $f(x)$  is linear,  $g(x)$  is affine,  $c = irn$  and  $kis$  a convex polyhedral cone), there is no duality gap between the primal and dual problems, provided the feasible **linear programming with inequality constraints via ...** - linear programming with inequality constraints via entropic perturbation jacob tsao university of california ... the duality result becomes readily applicable. many standard ... perturbation method, duality theory, entropy optimization. 1991 ams subject classification codes. primary: 90c05, 49d35. i. introduction. **duality theory - webth.ku** - the perturbation function has a directional derivative of in nite value. in case of no exceptions the perturbation function is said to be stable. in other words, strong duality holds in convex programming except for very few peculiar instances. if the perturbation function is additionally di erentiable at  $b$  then by (9) we get that the vector  $y$  **nonlinear optimization: duality - mines paristech** - nonlinear optimization: duality insead, spring 2006 jean-philippe vert ecole des mines de paris ... optimality conditions perturbation and sensitivity analysis nonlinear optimization c 2006 jean-philippe vert, (jean-philippert@mines) - p.2/67. the lagrange dual function ... strong duality does not hold for general nonlinear problems.

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