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**Craig Cowan\*** ([craig.cowan@umanitoba.ca](mailto:craig.cowan@umanitoba.ca)) and **Shangbing Ai**. *Perturbations of Lane-Emden equations*. Preliminary report.

We consider some perturbations of the Lane-Emden equation given by

$$-\Delta u + a(x) \cdot \nabla u + V(x)u = u^p + |\nabla u|^q \quad \text{in } R^N$$

where  $a(x)$  and  $V(x)$  satisfy certain decay assumptions. We prove the existence of positive classical solutions. This is joint work with Shangbing Ai. (Received February 01, 2015)