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Ryan Sassaman* (rcsassaman@gmail.com), Department of Mathematics, 1200 N Dupont Hwy, Dover, DE 19901, and **Anjan Biswas** (biswas.anjan@gmail.com), Department of Applied Mathematics and Theoret, Dover, DE 19901. *Soliton perturbation theory for the phi-four equation.*

The soliton perturbation theory is used to study the perturbed phi-four equation. The adiabatic dynamics of the soliton velocity is obtained. (Received August 25, 2008)