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Yi Li* (yi-li@uiowa.edu), Department of Mathematics, University of Iowa, Iowa City, IA 52242, and **Yaping Wu** (yaping_wu@hotmail.com), Beijing, 100037, Peoples Rep of China. *Stability of Travelling Waves with Noncritical Speeds for Double Degenerate Fisher-Type Equations.*

This work is concerned with the asymptotic stability of travelling wave solutions for double degenerate Fisher-type equations. By detailed spectral analysis, each travelling front solution with non-critical speed is proved to be linearly exponentially stable in some exponentially weighted spaces. Further by Evans function method and detailed semigroup estimates, each travelling front solution with non-critical speed is proved to be locally algebraically stable to perturbations in some appropriate polynomially weighted spaces. (Received September 05, 2007)