

STANFORD UNIVERSITY  
DEPARTMENT OF STATISTICS  
DEPARTMENTAL SEMINAR

4:15 p.m., Tuesday, November 16, 2004  
Sequoia Hall Room 200  
(Cookies at 3:45 in 1st Floor Lounge)

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**Dummy Endogenous Variables in Weakly Separable Models**

Abstract:

This paper considers the nonparametric identification and estimation of the average effect of a dummy endogenous variable in models where the error term is weakly but not additively separable from the regressors. The analysis includes the case of a dummy endogenous variable in a discrete choice model as a special case. This paper establishes conditions under which it is possible to identify and consistently estimate the average effect of the dummy endogenous variable without the use of large support conditions and without relying on parametric functional form or distributional assumptions. A root-N consistent and asymptotically normal estimator is developed for a special case of the model.