LIML in the linear panel data model

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Abstract
We consider the static linear panel data model with a single regressor. For this model we derive the LIML estimator. We study the asymptotic behavior of this estimator under many-instruments asymptotics, by proving its consistency, deriving its asymptotic variance, and by presenting an estimator of the asymptotic variance that is consistent under many-instruments asymptotics. We briefly indicate the extension to multiple regression.