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The role of technology gap in the trade of Poland. Panel estimation in the gravity framework

The analysis is carried out for 234 trade partners of Poland in the period 1999-2013. Technology gap is measured by TFP and relative patenting performance controlling for quality of institutions as well as technology and innovation indices of Global Competitiveness Report. In order to obtain unbiased results we utilize semi-mixed effects model using Poisson pseudo-maximum likelihood (PPML) estimator. The gravity framework proves to be robust. The coefficients on technology gap indicators differ significantly as has been expected between different groups of trade partners by level of income and technological sophistication.