

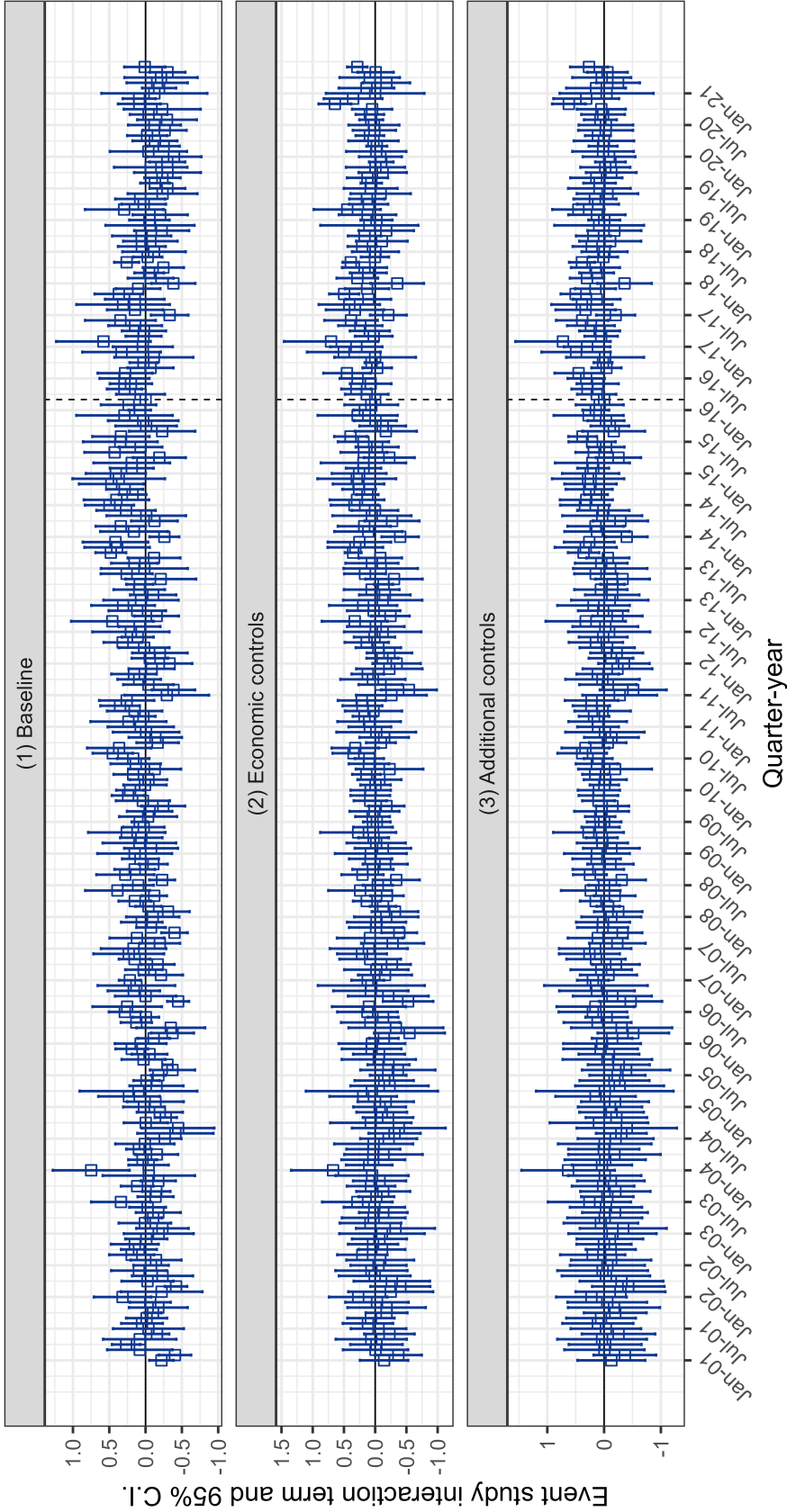
# 1 Appendix: Province-month panel results

Table 1: DD specifications for monthly patent applications

	(1)	(2)	(3)
Treatment x Post	-0.058 (0.042)	0.088 (0.070)	0.077 (0.083)
Explained variable	ln(Patents + 1)		
$N$	1968	1968	1968
Adj. $R^2$	0.942	0.952	0.952
Adj. within $R^2$	0.000	0.168	0.177
RMSE	0.314	0.285	0.283

*Notes:* Clustered standard errors at the province and monthly level shown in parentheses. Specifications include fixed effects for provinces and months and the controls for their quarterly counterpart in Table ?? . \*\*\* $p < 0.01$ , \*\* $p < 0.05$ , \* $p < 0.1$ .

Figure 1: Event study plot for monthly patent applications



Notes: The figure shows the estimated coefficients of the interaction term between period and treatment binary variables in Equation ?? for each month. The points represent the point estimate, while the error bars represent the 95% confidence cluster-robust interval. The vertical line represents the start of the AITC intervention (first expense eligibility date) in April 2016, with the reference level being the month before the intervention. Baseline, economic, and additional controls specifications include the controls seen in specifications (1) through (3) in Table ??.

Table 2: Difference-in-differences results for monthly patent applications by IPC section

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Treatment x Post	0.319*** (0.071)	0.346** (0.124)	0.000 (0.125)	0.099* (0.048)	-0.452*** (0.060)	0.229** (0.096)	-0.151 (0.101)	0.193 (0.108)
Patent section (IPC)	A	B	C	D	E	F	G	H
$N$	1968	1968	1968	1968	1968	1968	1968	1968
Adj. $R^2$	0.823	0.853	0.767	0.163	0.849	0.774	0.877	0.860
Adj. within $R^2$	0.049	0.038	0.051	0.016	0.054	0.014	0.044	0.057
RMSE	0.414	0.396	0.395	0.248	0.380	0.405	0.375	0.393

*Notes:* Sections of the IPC are A: Human Necessities, B: Performing Operations; Transporting, C: Chemistry; Metallurgy, D: Textiles; Paper, E: Fixed Constructions, F: Mechanical Engineering; G: Physics, H: Electricity. Patents with multiple sections are not included. All specifications include controls in Specification (3) of Table 1, not shown for brevity and fixed effects for provinces and monthly. Clustered standard errors at the province and month level shown in parentheses. \*\*\* $p < 0.01$ , \*\* $p < 0.05$ , \* $p < 0.1$ .