

# **Trade Creation, Political Sensitivity and Product Exclusions: the Political Economy of Agriculture Protection in China's FTAs**

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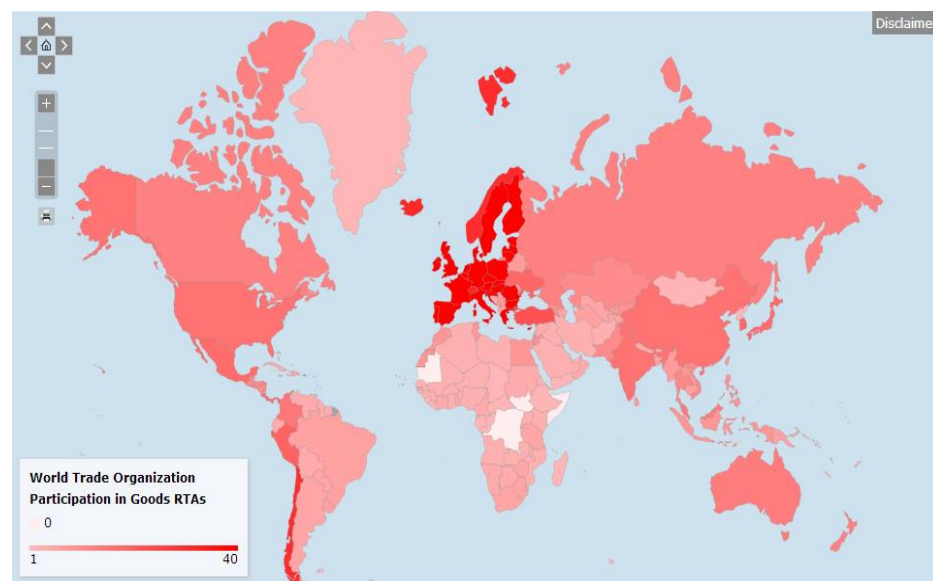
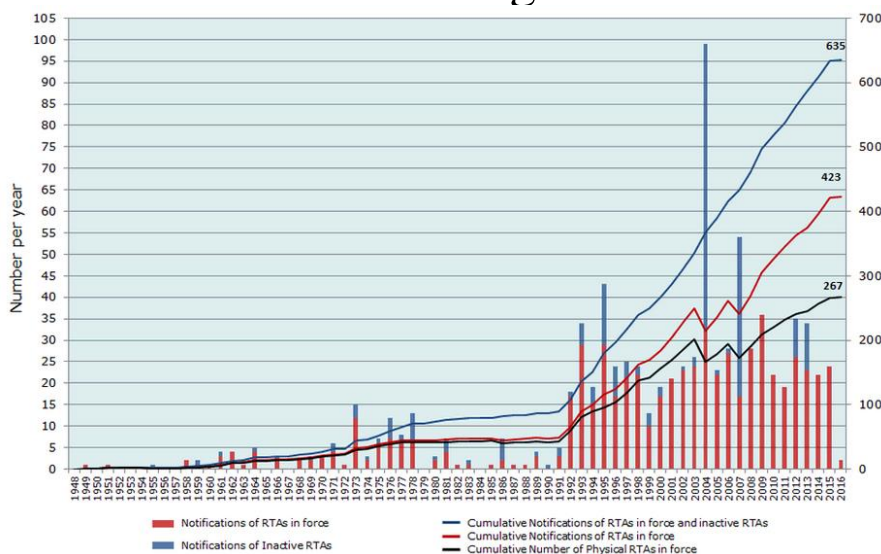
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# Outline

- 1. Introduction
- 2. The stylized facts in China's FTAs
- 3. Theoretical framework and hypotheses
- 4. Econometric specification and data
- 5. Results
- 6. Conclusions

# 1. Introduction

- Since the beginning of the 21st century, multilateral trade negotiations have reached a temporary impasse under the WTO, regional trade agreements (RTAs) have become increasingly prevalent.
- Almost all countries are involved in at least one of the preferential agreements.
- Up to December 1<sup>st</sup>, 2016, 423 RTAs have been in force, more than 200 RTAs are under negotiation.



Source: WTO RTAs database

- To adapt to the rapidly changing global economic environment;
- To facilitate the domestic economic structural transformation, China has been accelerating and promoting the negotiations of RTAs as well.
- Until December 31<sup>st</sup>, 2016, 14 RTAs have been signed by China with other 22 countries/regions, and 9 free trade agreements (FTAs) are being negotiated.

# 1. Introduction<sub>-continued</sub>

- US(NAFTA): sugar, citrus
- China(China-ASEAN FTA): rice, oil, sugar, tobacco, cotton, etc.
- Iceland(China-Iceland FTA): milk and cream, potatoes, blood and liver sausages, etc.
- Excluded or not?
- Why?



## 2. The Stylized facts in China's FTAs

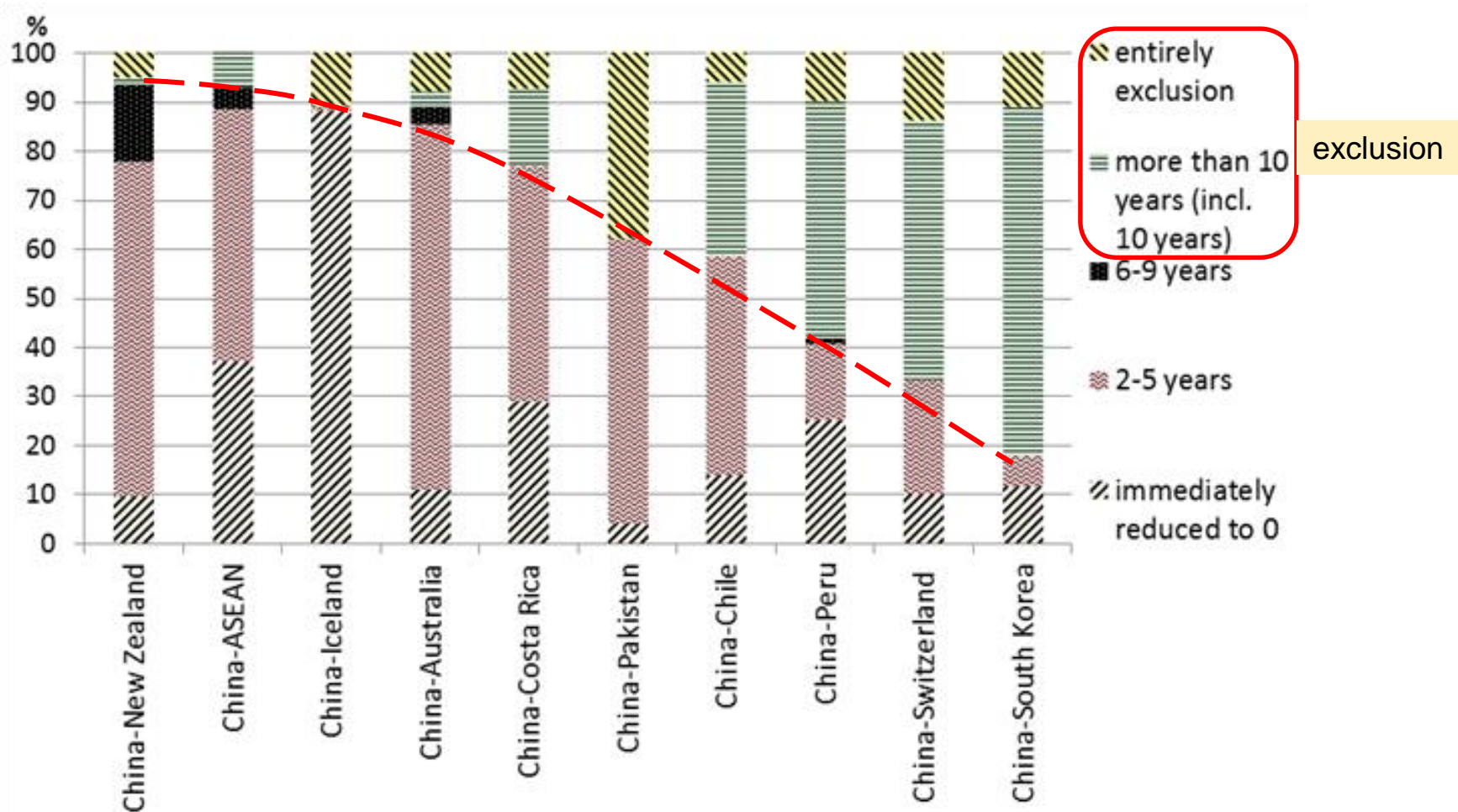
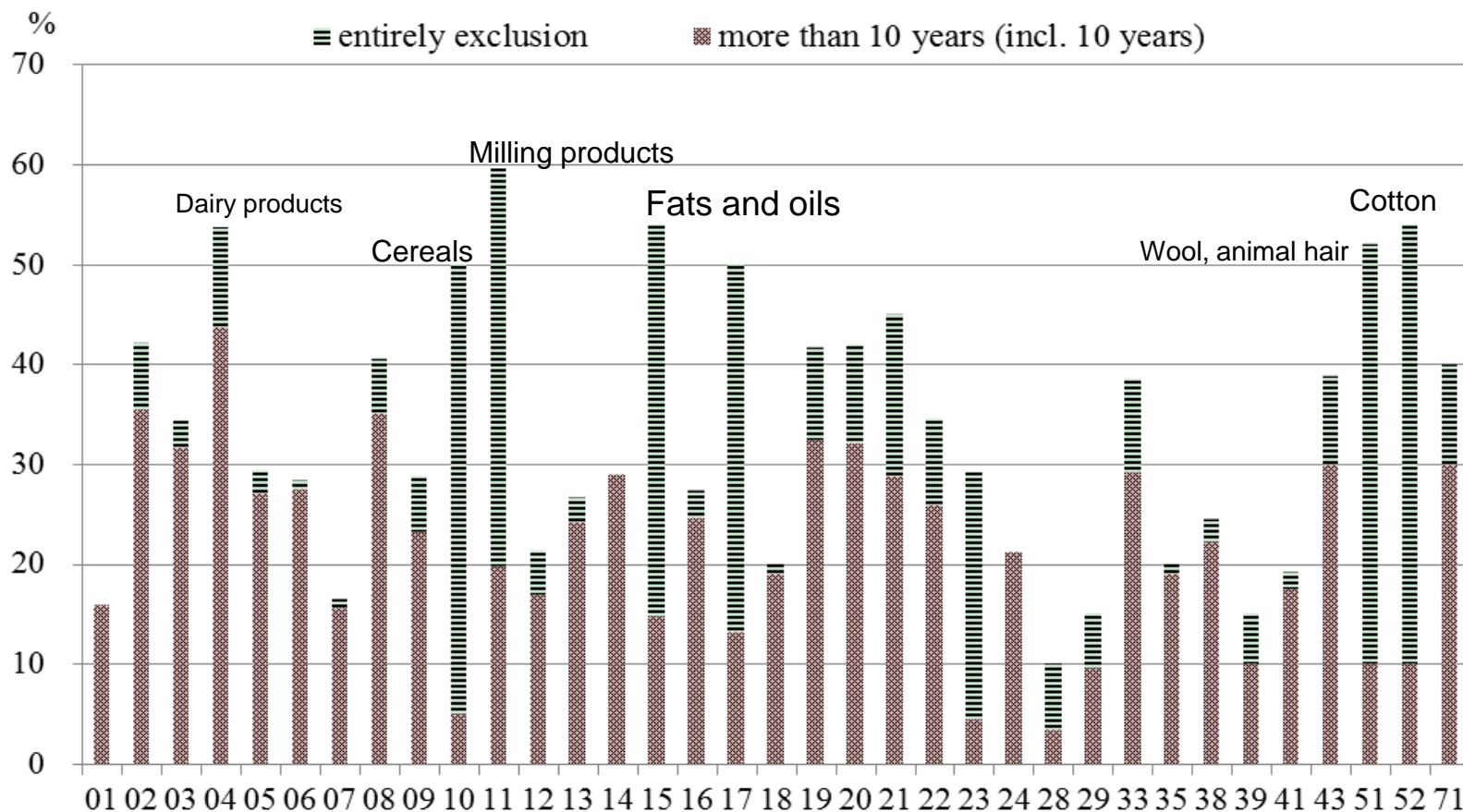


Figure 1: The average tariff reduction of agri-products in China's FTAs

# 2. The Stylized facts in China's FTAs-

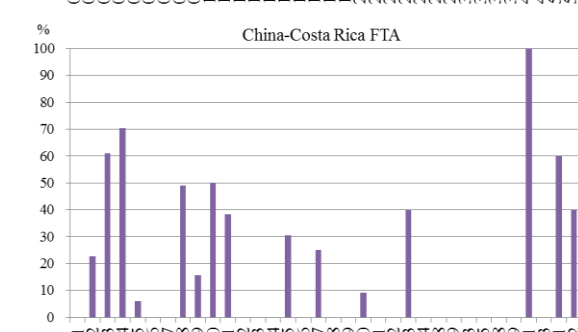
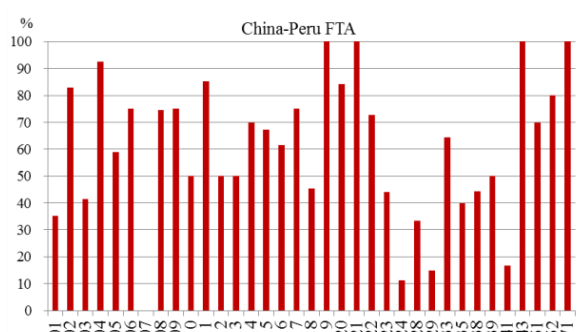
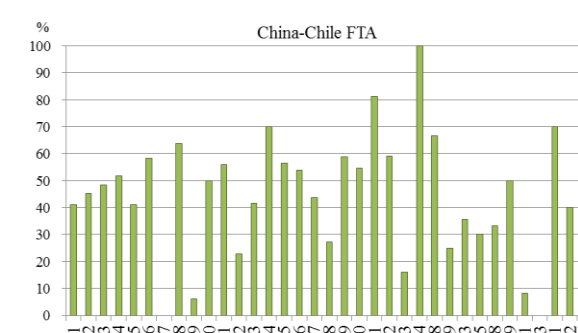
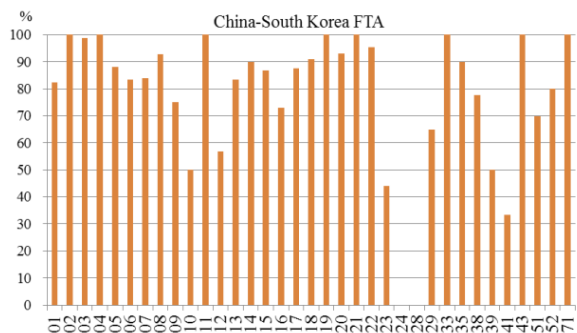
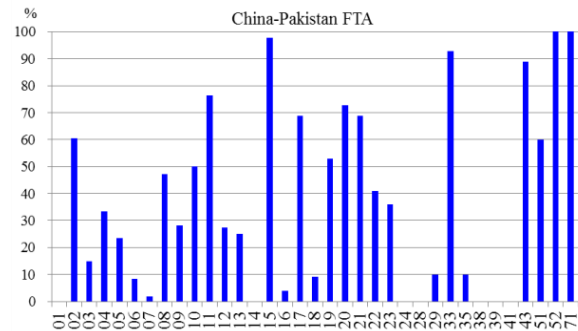
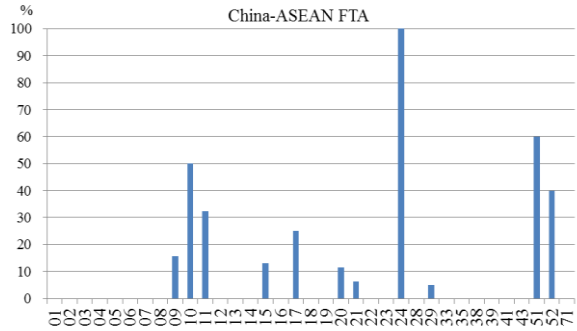
continued



■ Figure 2: The HS section distribution of sensitive agri-products in China's FTAs

# 2. The Stylized facts in China's FTAs-

continued





# 2. The Stylized facts in China's FTAs-

continued

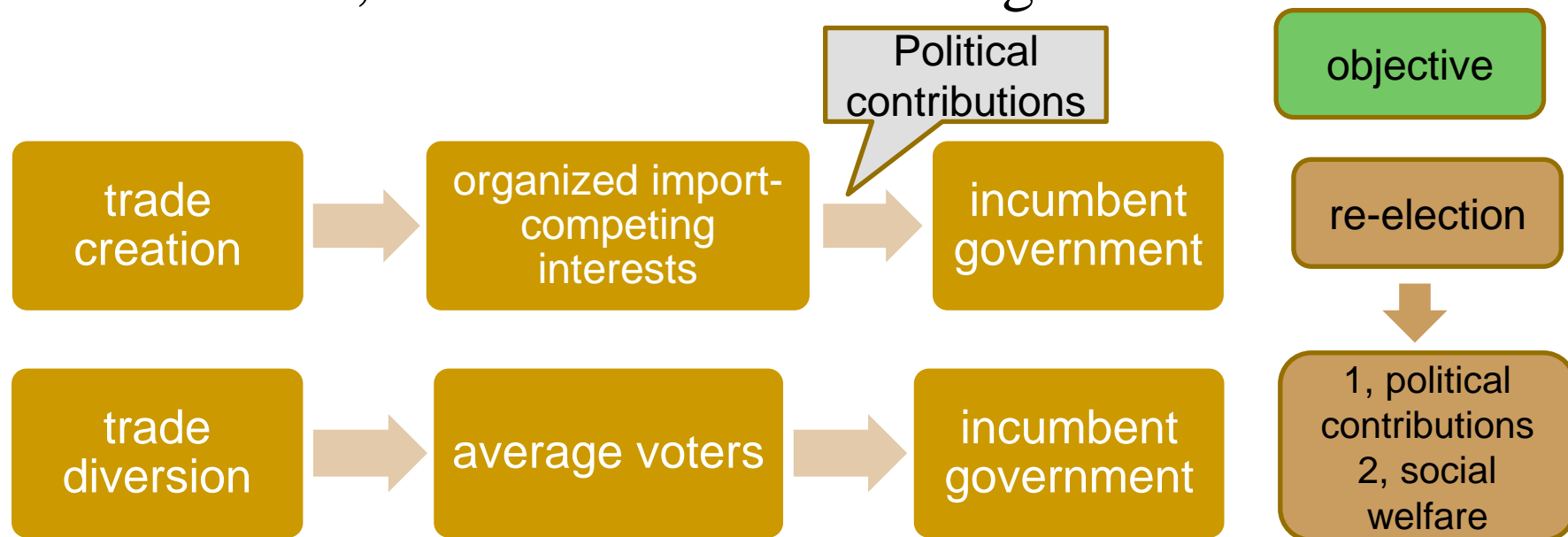


■ Figure 3: The shares of sensitive agri-products in each FTA- continued

# 3. Theoretical framework and hypotheses

## 3.1 Traded goods

Grossman & Helpman (1995): “protection for sale” framework; the condition of forming FTAs.



# 3. Hypotheses<sub>-continued</sub>

- Import-competing industry: the relative smaller community; concentrated production; the same political goals
- Average voters: a relatively larger community
- “collective action” problem
- China: invisible contributions, political connections  
⇒ policy making.
- Hypothesis 1: *trade creation products are more likely to be excluded in China’s FTAs.*

# 3. Hypotheses-continued

- 3.2 Non-traded goods
- Unorganized industries also receive positive protection (Ederington & Minier, 2008). Why?
- Food security; politically sensitive products
- Hypothesis 2: politically sensitive products are more likely to be excluded in China's FTAs

# 4. Econometric specification and data

## ■ 4.1 Econometric specification

$$\begin{aligned} tariff\_exclusion_{ij} = & c + \alpha Trade\_creation_{ij} + \beta Politically\_sensitive_i \\ & + \gamma \mathbf{x} + \delta_i + \delta_j + \varepsilon_{ij} \end{aligned}$$

- **Tariff\_exclusion:** equals to 1 if the length of tariff reduction transition period are more than 10 years(incl.) or entirely excluded (MFN tariffs), otherwise equals to 0.
- **Trade\_creation:** following the method of Baldwin & Murray (1977),  
$$\ln(Trade\_creation_{AB}) = \ln(M_{ABO} \times \xi_d \times (\Delta t / (1 + t_0)))$$
- **Politically\_sensitive:** equals to 1 if the product is national strategic product, otherwise equals to 0.
- **Control variables:** negotiation power, RCA, intra-industry trade, Import ratio, FTA signing time, country fixed effect, HS section fixed effect, etc..

## ■ 4.2 Data

- Dataset: 10 FTAs, including China-ASEAN FTA, China-New Zealand FTA, China-Iceland FTA, China-Australia FTA, China-Costa Rica FTA, China-Pakistan FTA, China-Chile FTA, China-Peru FTA, China-Switzerland FTA, and China-South Korea FTA
- Sample size: HS 6-digit level, 8210 agri-products
- Data sources: legal text of each FTA; UN Comtrade database; WTO database

**Table 1: The descriptive statistics for variables in the regression**

Variable	Obs.	Mean	Std.	Min	Max
tariff_exclusion	8210	0.3437	0.4750	0	1
Intrade_creation_Baldwin_2	1881	1.2154	3.5204	-11.2451	13.1049
trade_creation	2101	0.4517	0.4978	0	1
national_strategic_product	8210	0.0926	0.2898	0	1
political_sensitive	8210	0.3663	0.4818	0	1
gdp_ratio	8210	38.2494	46.6508	3.2732	135.4444
rca_c	7650	0.7779	1.6430	0	16.4806
rca_p	7057	3.4488	25.2397	0	1097.6410
gl_index	2492	0.0771	0.1948	0	0.9975
import_ratio	7112	3.2197	13.9118	0	100
trade_balance_c	7650	0.1128	0.8202	-1	1
intermediate_product	8210	0.5920	0.4915	0	1
labor_intensive_product	8210	0.9220	0.2681	0	1
time_sign	8210	5.1000	2.3855	1	8

Table 2: Regression results for product exclusions

	(1)	(2)	(3)	(4)
Intrade_creation_Baldwin_2	0.117*** (0.023)		0.118*** (0.023)	
national_strategic_product		3.698*** (0.858)	1.648* (0.938)	
trade_creation_dummy				0.202* (0.105)
political_sensitive				0.613*** (0.131)
gdp_ratio	0.078*** (0.019)	0.056*** (0.009)	0.079*** (0.019)	0.072*** (0.017)
Constant	-5.865*** (0.699)	-4.989*** (0.979)	-6.189*** (0.738)	-0.643 (0.771)
Other control variables	yes	yes	yes	yes
Country fixed effect	yes	yes	yes	yes
HS section fixed effect	yes	yes	yes	yes
N	1429	2410	1429	1612
pseudo R <sup>2</sup>	0.639	0.535	0.642	0.592

=1 if the tariff is more than the mean value before negotiation

=1 if the import growth ratio of the 3-year average (2012-2014) to another 3-year average (2001-2003) is larger than 1

Notes: Dependent variable is tariff exclusions (products excluded =1, otherwise=0); robust standard errors are in parentheses; for independent variables the data are all from one year before the negotiation of each FTA; following Hong (2013)'s research, we also used other import demand elasticity (3, 8, 20), and the results are almost the same; \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.



**Table 3: The robustness checks for product exclusions A**

	(1)	(2)	(3)	(4)	(5)	(6)
	Without zero tariff	Without zero tariff	Small trading partners	Big trading partners	Small trading partners	Big trading partners
trade_creation_dummy	0.222** (0.107)				0.539* (0.302)	0.223* (0.117)
political_sensitive	0.571*** (0.132)				1.584*** (0.402)	0.442*** (0.138)
Intrade_creation_Baldwin_2		0.118*** (0.023)	0.051 (0.063)	0.149*** (0.025)		
national_strategic_product		1.648* (0.938)	0.935 (1.031)	1.652* (0.943)		
gdp_ratio	0.075*** (0.018)	0.079*** (0.019)	-0.091*** (0.006)	0.283*** (0.033)	-0.027*** (0.007)	0.234*** (0.029)
Constant	-0.653 (0.797)	-6.189*** (0.738)	67.787*** (11.724)	-10.298*** (1.008)	-1.160 (0.802)	0.973 (0.858)
Other control variables	yes	yes	yes	yes	yes	yes
Country fixed effect	yes	yes	yes	yes	yes	yes
HS section fixed effect	yes	yes	yes	yes	yes	yes
N	1579	1429	104	1310	163	1432
pseudo R <sup>2</sup>	0.604	0.642	0.392	0.694	0.433	0.633

Notes: Dependent variable is tariff exclusions (products excluded=1, others=0); robust standard errors in parentheses; all independent variables are one year lag of each FTA's negotiation; \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

**Table 4: The robustness checks for product exclusions B**

	(1)	(2)	(3)	(4)
	traded products	traded products	non-traded products	non-traded products
Intrade_creation_Baldwin_2	0.118*** (0.023)			
national_strategic_product	1.648* (0.938)		2.999*** (0.486)	
trade_creation_dummy		0.202* (0.105)		
political_sensitive		0.613*** (0.131)		0.695*** (0.060)
gdp_ratio	0.079*** (0.019)	0.072*** (0.017)	0.033*** (0.005)	0.037*** (0.005)
Constant	-6.189*** (0.738)	-0.643 (0.771)	-2.784*** (0.627)	-2.903*** (0.582)
Other control variables	yes	yes	yes	yes
Country fixed effect	yes	yes	yes	yes
HS section fixed effect	yes	yes	yes	yes
N	1429	1612	4340	4340
pseudo R <sup>2</sup>	0.642	0.592	0.366	0.370

Notes: Dependent variable is tariff exclusions (products excluded =1, others=0); robust standard errors in parentheses; all independent variables are one year lag of each FTA's negotiation; \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

# 6. Conclusions

- products which experience trade creation or which are politically sensitive are more likely to be excluded in FTAs.
- Overall, the Chinese government would seek more economic benefits from trading partner.
- Moreover, for big-trading partners, the Chinese government would use its negotiation power to seek both political and economic objectives.
- For small-trading partners, however, with objectives of diplomacy or showing the “big country morality”, the Chinese government would use the negotiation power to seek more political objectives than economic objectives.

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# Thank you for your attention!

