APPENDIX – For Online Publication

T	TABLE A1 – SUMMARY STATISTICS, BRP BOOKS					
	Ν	Mean	St. Dev.	Median		
All BRP books						
Original <i>p</i>	271	42.79	179.57	11.15		
BRP p	283	19.41	41.77	7.50		
Δp	271	24.97	21.33	21.87		
Chemistry Original p BRP p Δp	216 228 216	51.18 22.43 24.34	200.34 46.00 21.39	11.70 8.50 21.76		
Mathematics						
Original p	55	9.84	5.77	8.00		
BRPp	55	6.88	4.32	5.75		
Δp	55	27.44	21.11	23.47		

Notes: Means, standard deviations, and median prices for 283 books with German-owned US copyrights that were licensed to US publishers under the 1942 BRP. The variable Δp measures the percentage decline in price, calculated as the difference between the original price and the BRP price, divided by the original price. Price data collected Alien Property Custodian (1942).

Author	Title	Publication Year	Pre-1942 Citations	Post-1942 Citations	Field
Courant, R. & D. Hilbert	Methoden der Mathematischen Physik	1931	8	235	Mathematics
Becker, R.	Ferromagnetismus	1939	10	232	Chemistry
Alexandroff, P. & H. Topf, H.	Topologie	1935	6	235	Mathematics
Nevanlinna, R.	Eindeutige Analytische Funktionen	1936	6	230	Mathematics
Waerden, B.	Moderne Algebra	1931	11	195	Mathematics
Saccardo, P.	Sylloge Fungorum Omnium Hucusque Cognitorum curante Alex	1881	59	141	Chemistry
Hansen, M.	Der Aufbau der Zweistofflegierungen	1936	25	172	Chemistry
Doetsch, G.	Theorie und Anwendung der Laplace- Transformation	1937	7	169	Mathematics
Clar, E.	Aromatische Kohlenwasserstoffe: Polycyclische Systeme	1942	0	166	Chemistry
Speiser, A.	Die Theorie der Gruppen von Endlicher Ordnung	1937	2	112	Mathematics

TABLE A2 – MOST CITED BRP BOOKS

Notes: Citations refer to citations to BRP books by English-language citations.

			Pre-1942	Post-1942	
Author	Title	Publication Year	Citations	Citations	Field
Leser, Conrad	Invariantentheorie Algebaische Formen	1939	0	41	Mathematics
Huber, Wilhelm	Zur Kenntnis der Sulfuration Aromatischen				
	Amine nach dem sogennanten "Backprozess"	1932	0	34	Chemistry
Motzkin, Theodor	Zur Theorie der Linearen Ungleichungen	1936	0	34	Mathematics
Warschawski,	Das Randverhalten der Ableitung der				
Stefan	Abbildungsfunktion bei Konformer Abbildung	1932	0	34	Chemistry
Stiefel, Edward	Richtungsfelder und Fernparallelism in n-				
	Dimensionalen Mannigfaltigkeiten	1936	2	31	Chemistry
Hofmann, Albert	Uber den Enzymatischen Abbau des Chitins und			. –	
x	Chitosans	1929	3	17	Mathematics
Jungen, Reinwald	Sur les series de Taylor n'ayant que des				
	singularités algebrico-logarithmiques sur leur	1022	C	10	Classister
Mullar Hong	cercle de convergence Zur Theorie des electrischen Ladung und der	1932	0	13	Chemistry
Muller, Hans.	Zur Theorie der elektrischen Ladung und der Koggulation der Kolloide	1029	0	10	Mathamatica
TT 1 A 1	Koagulallon der Kollolde	1928	0	19	Mathematics
Halpern, Ada	Etude de certains potentiels logarithmiques	1937	2	17	Chemistry
Gutzeit, Grégoire	Sur une méthode d'analyse qualitative rapide des				
	cations et anions les plus usuels	1930	3	13	Mathematics

TABLE A3 – MOST CITED SWISS BOOKS

Notes: Citations refer to citations to Swiss books by English-language citations.

	BRP Books				Swiss Books			
	Price		Citati	Citations		Citati	ons	Ν
	Original	Δp	Pre-1941	Post-1941		Pre-1941	Post-1941	
Mathematics								
Mathematics	11.96	38.80	0.520	1.740	14	0.025	0.112	4
Geometry	7.75	29.27	0.054	0.330	12	0.028	0.112	17
Algebra	8.74	15.79	0.143	0.990	7	0.017	0.119	13
Set Theory	9.99	31.59	0.447	2.695	6	0.047	0.072	13
Analysis	9.52	18.14	0.337	1.952	5	0.009	0.162	16
Chemistry								
Compounds	29.60	24.68	0.191	0.441	58	0.016	0.059	74
Organic Chemistry	200.30	34.65	0.367	0.508	28	0.000	0.057	6
Metals	16.27	18.57	0.427	0.696	27	0.057	0.060	4
Electrochemistry	15.97	18.93	0.152	0.520	14	0.023	0.045	10
Analytical Chemistry	14.77	32.79	0.242	0.299	12	0.063	0.138	5
Physical Chemistry	22.01	26.09	0.249	0.276	10	0.000	0.000	1

TABLE A4 – CHANGES IN PRICE AND IN CITATION FOR THE TOP FIVE RESEARCH FIELDS, BRP AND SWISS BOOKS IN CHEMISTRY (TOP) AND MATHEMATICS (BOTTOM)

Notes: Research fields for 283 BRP and 247 Swiss books in the US National Union Catalog. Research fields are constructed based on topic codes in Alien Property Custodian (1942) and the *Katalog* (vols. 1921-1939 and 1931-1940) of the Swiss National Library.

	1920-41	1942-1970	Difference
All (N=283)	0.281	0.479	0.197***
	(0.784)	(1.371)	(0.025)
English	0.263	0.566	0.303***
	(0.775)	(1.653)	(0.041)
Other languages	0.299	0.391	0. 092***
	(0.793)	(1.006)	(0.026)
Difference	0.036	0.174***	0.211***
	(0.027)	(0.021)	(0. 049)
Chemistry (N=228)	0.306	0.384	0.078***
	(0.838)	(1.088)	(0.023)
English	0.274	0.414	0.140***
	(0.814)	(1.251)	(0.037)
Other languages	0.337	0.353	0.016
	(0.860)	(0.895)	(0.027)
Difference	0.063	0.060***	0.124***
	(0.033)	(0.019)	(0.046)
Mathematics (N=55)	0.204	0.872	0.667***
	(0.574)	(2.138)	(0.077)
English	0.230	1.195	0.965***
-	(0.633)	(2.661)	(0.135)
Other languages	0.179	0.549	0.369***
	(0.509)	(1.363)	(0.070)
Difference	0.050	0.647***	0.596***
	(0.041)	(0.075)	(0.152)

TABLE A5 – COMPARISON OF MEANS NEW PUBLICATIONS THAT CITE BRP BOOKS PER BOOK AND YEAR

Notes: Means and standard deviations (in parentheses) of the number of new scientific publications (including articles and books) that cite a BRP book *i* per year *t* between 1920 and 1970. *English* are citations by English-language authors; *other languages* are citations by authors in other languages that cite the same books. To construct data on citations from different languages, we first collected citations from Google Scholar (available at <u>http://scholar.google.com</u>, accessed July 1st - September 25th, 2014), and then manually assigned all citing publications to their publication language.

	(1)	(2)	(3)	(4)
English	-0.036	-0.036	-0.036	-0.036
-	(0.042)	(0.042)	(0.042)	(0.042)
English x post	0.211***	-0.077	0.079	-0.074
	(0.066)	(0.091)	(0.053)	(0.091)
English x Δp x post		1.192***		0.646**
		(0.344)		(0.288)
English x Math x post			0.674**	
			(0.279)	
English x Math x Δp x post				2.383***
				(0.907)
Citation Year FE	Yes	Yes	Yes	Yes
Book FE	Yes	Yes	Yes	Yes
R-squared	0.357	0.366	0.368	0.382
N	19,680	18,986	19,680	18,986
Pre-1942 Mean	0.263	0.264	0.263	0.264
Standard	errors in parentheses cluster	ed at the book level. *** p	<0.01, ** p<0.05, * p<0.1	

TABLE A6 – OLS WITH CONTROLS FOR LINEAR PRE-TRENDS, DEPENDENT VARIABLE IS CITATIONS PER BOOK AND YEAR

Notes: The dependent variable measures citations to book *i* per year *t* between 1920 and 1970. In column (1-4), the depended variable is detrended by estimating separate linear pre-trends for English-language citations and for citations by authors publishing in other languages, and then controlling for these different trends in the post-period. The indicator *English* equals 1 for citations by *English-language* authors; the control group are citations to the same books from authors in other languages. The variable *post* equals one for years after 1941. The variable *Math* indicates 55 books in mathematics. The variable Δp measures the difference between the original price and the BRP price for book *i*, divided by the original price.

	1920-41	1942-1970	Difference
All Books (N=530)	0.105	0.338	0.232***
	(0.487)	(0.255)	(0.018)
BRP (N=283)	0.263	0.566	0.303***
	(0.775)	(1.653)	(0.041)
Swiss (N=247)	0.024	0.078	0.054***
	(0.171)	(0.353)	(0.007)
Difference	0.239***	0.488***	0.249***
	(0.014)	(0.020)	(0. 038)
Chemistry (N=389)	0.111	0.271	0.160***
- 、 /	(0.514)	(0.993)	(0.017)
BRP (N=228)	0.274	0.413	0.140***
	(0.814)	(1.251)	(0.037)
Swiss (N=161)	0.025	0.069	0.044***
	(0.176)	(0.311)	(0.007)
Difference	0.249***	0.345***	0.096***
	(0.013)	(0.019)	(0.035)
Mathematics (N=141)	0.089	0.523	0.434***
	(0.395)	(1.776)	(0.051)
BRP (N=55)	0.230	1.195	0.965***
	(0.633)	(2.661)	(0.135)
Swiss (N=86)	0.021	0.094	0.073***
	(0.152)	(0.420)	(0.015)
Difference	0.209***	1.101***	0.892***
	(0.023)	(0.054)	(0.104)

TABLE A7 – COMPARISON OF MEANS: New Publications that Cite BRP vs. Swiss Books

Notes: Means and standard deviations (in parentheses) for English-language citations to BRP and Swiss books *i* per year *t* between 1920 and 1970. *BRP* books include 283 books with German-owned copyrights that were licensed to US publishers under the 1942 Book Republication Program (BRP). Swiss books cover 247 books with Swiss-owned copyrights that were not available for copyright licensing due to Switzerland's neutrality during the war. To construct data on citations from different languages, we first collect citations from Google Scholar (available at <u>http://scholar.google.com</u>, accessed July 1st - September 25th, 2014), and then manually assigned all citing publications to their publication language.

	1920-41	1942-1970	Difference
All Books ($N = 255$)	0.218	0.581	0.362***
	(0.710)	(1.667)	(0.038)
BRP (N = 2	0.283	0.661	0.378***
	(0.804)	(1.787)	(0.047)
Swiss (N =	= 39) 0.027	0.141	0.113***
	(0.196)	(0.531)	(0.024)
Difference	0.256***	0.520***	0.264***
	(0.036)	(0.054)	(0.091)
	0.000	0.405	
Chemistry ($N = 193$)	0.229	0.405	0.175***
	(0.751)	(1.207)	(0.033)
BRP (N =	165) 0.302	0.462	0.160***
	(1.420)	(1.767)	(0.041)
Swiss (N =	= 29) 0.023	0.068	0.045***
	(0.352)	(0.460)	(0.016)
Difference	0.280***	0.394***	0.114*
	(0.043)	(0.045)	(0.078)
Mathematics $(N - 60)$	0 186	1 1 4 7	0.061***
Maule matters (N = 00)	0.100	1.14/	(0.114)
	(0.572)	(2.572)	(0.114)
BRP(N =	49) 0.230	1.331	1.102***
	(0.633)	(2.785)	(0.141)
Swiss (N =	= 11) 0.042	0.326	0.284
	(0.240)	(0.854)	(0.079)
Difference	0.188***	1.005 ***	0.818***
	(0.059)	(0.158)	(0.274)

TABLE A8 - CITATIONS PER YEAR – MATCHED SAMPLE

Notes: Means and standard deviations (in parentheses) of the number of new scientific publications that cite book *i* per year *t* between 1920 and 1970. The indicator *BRP* equals 1 for 214 books in the National Union Catalog (NUC) that were licensed to US publishers under the 1942 Book Republication Program (BRP). The control group covers 39 Swiss books in the NUC (that were not available for copyright licensing due to Switzerland's neutrality). We have matched BRP books with Swiss books through a Mahalanobis matching procedure using research fields and the average of pre-1942 German language citations per year as matching variables. Citations from Google Scholar (<u>http://scholar.google.com)</u>, July 1st to September 25th, 2014.

		OLS (1-3)		Poisson (4)
	(1)	(2)	(3)	(4)
BRP		-0.635***	0.222**	
		(0.145)	(0.088)	
BRP x post	0.392***	0.433***	0.436***	-0.002
-	(0.086)	(0.146)	(0.096)	(0.209)
Citation year FE	Yes	Yes	Yes	Yes
Book FE	Yes	Yes	No	Yes
Field * Citation year FE	No	Yes	No	No
Publication year FE	No	No	Yes	No
Field FE	No	No	Yes	No
R-squared	0.550	0.584	0.146	-
N	20,191	19,702	19,702	13,834
Pre-1942 mean	.263	.268	.268	.268
Standard errors in parenthes	ses clustered at the	he book level. ***	* p<0.01, ** p	<0.05, * p<0.1

TABLE $A9 - OLS$ and QN	ML POISSON REGRESSIONS
---------------------------	------------------------

Notes: The dependent variable measures citations to book *i* per year *t* between 1920 and 1970. Columns (1-3) estimate OLS. Column (4) estimates quasi-maximum likelihood (QML) Poisson regressions to address the count data characteristics of citations. The indicator *BRP* equals 1 for 283 books that were licensed to US publishers under the 1942 Book Republication Program (BRP). The control group covers 247 Swiss books that were not available for licensing due to Switzerland's neutrality during the war. The variable *post* equals for years after 1941.

		OLS (1-3)		Poisson (4)
	(1)	(2)	(3)	(4)
BRP			0.159*	
			(0.086)	
BRP x post	0.097	0.170*	0.127	0.034
	(0.077)	(0.100)	(0.087)	(0.285)
BRP x Δp x post	1.006***	0.961**	1.066***	-0.087
	(0.344)	(0.433)	(0.313)	(0.490)
Δp			0.282	
1			0.159*	
Citation Year FE	Yes	Yes	Yes	Yes
Book FE	Yes	Yes	No	Yes
Field FE * Citation	No	Yes	No	No
year FE				
Publication year FE	No	No	Yes	No
Field FE	No	No	Yes	No
R-squared	0.554	0.587	0.167	
N	19,844	19,383	19,383	13,572
Pre-1942 Mean	.264	.269	.269	.264
Standard errors in par	entheses clustered	d at the book level	<u>. *** p<0.01, ** j</u>	p<0.05, * p<0.1

TABLE A10– OLS AND QML POISSON REGRESSIONS

Notes: The the dependent variable measures citations to book *i* per year *t* between 1920 and 1970. Columns (1-3) estimate OLS. Column (4) estimates quasi-maximum likelihood (QML) Poisson regressions to address the count data characteristics of citations. The indicator *BRP* equals 1 for 283 books that were licensed to US publishers under the 1942 Book Republication Program (BRP). The control group covers 247 Swiss books that were not available for licensing due to Switzerland's neutrality during the war. The variable *post* equals for years after 1941. The variable Δp measures the difference between the original price and the BRP price for book *i*, divided by the original price.

	(1)	(2)	(3)	(4)	(5)	(6)
BRP			0.742***			0.613**
			(0.259)			(0.264)
BRP x post	0.361***	0.361***	0.439***	0.070	0.070	0.148
	(0.089)	(0.089)	(0.151)	(0.083)	(0.083)	(0.155)
BRP x Δp x post	× ,			0.992***	0.992***	1.000***
1 1				(0.342)	(0.342)	(0.316)
Δp						0.378
1						(0.287)
Citation Year FE	Yes	Yes	Yes	Yes	Yes	Yes
Book FE	Yes	Yes	No	Yes	Yes	No
Publication Year FE	No	No	Yes	No	No	Yes
Field FE	No	No	Yes	No	No	Yes
Linear pre-trend	No	Yes	No	No	Yes	No
R-squared	0.551	0.545	0.156	0.554	0.548	0.178
N	10,567	10,567	10,308	10,220	10,220	9,989
Pre-1942 Mean	0.263	0.263	0.268	0.264	0.264	0.269
Standard errors in pare	ntheses are o	clustered at	the book lev	el. *** p<0.	01, ** p<0.	05, * p<0.1

TABLE A11–BOOKS IN THE US LIBRARY OF CONGRESS. OLS, DEPENDENT VARIABLE IS CITATIONS PER YEAR

Notes: OLS regressions for BRP and Swiss books that are listed among the entries of the US Library of Congress. The dependent variable measures citations to book *i* per year *t* between 1920 and 1970. The indicator *BRP* equals 1 for 283 BRP books that are listed in the Library of Congress and that were licensed to US publishers under the 1942 Book Republication Program (BRP). The control group covers 19 Swiss books in the Library of Congress that were not available for licensing due to Switzerland's neutrality during the war. The variable *post* equals for years after 1941. The variable Δp measures the difference between the original price and the BRP price for book *i*, divided by the original price. In columns 2 and 5 the dependent variable is de-trended by estimating separate linear pre-trends for BRP and Swiss books for pre-BRP years and controlling for trends in the post-period.

			English- la	anguage	Price	9
		_	Citati	ons		
Title	Author	Publication	1920-41	1942-70	Original	Δp
		year				
Methoden der mathematischen Physik	R. Courant and D. Hilbert	1931	8	235	28.24	0.504
Strahlenoptik	M. Herzberger	1931	0	2	7.75	0.161
Mathematische Grundlagen der Quantenmechanik	J. v. Neumann	1932	6	28	7.85	0.554
Aufgaben und Lehrsätze aus der Analysis	G. Pólya and G. Szegő	1925	4	34	14.40	0.583

TABLE A12 – BOOKS BY ÉMIGRÉS TO THE UNITED STATES

Notes: Emigrés are identified using entries in the *International Biographical Dictionary of Central European Émigrés 1933-1945* (Strauss et al. 1983), as well as based on affiliations with US universities, which we collect from the *Mathematics Genealogy Project* (available at http://genealogy.math.ndsu.nodak.edu, accessed February 1-18, 2015).

	(1)	(2)	(3)	(4)	
English x post	0.479*	0.085	0.479*	0.086	
	(0.244)	(0.244)	(0.243)	(0.243)	
English	0.051	-0.204***	0.051	-0.204***	
-	(0.066)	(0.062)	(0.065)	(0.062)	
US émigré * English * post	1.614	1.614	1.609	1.609	
	(1.589)	(1.589)	(1.580)	(1.580)	
US émigré			-1.050*	-1.050*	
C C			(0.561)	(0.561)	
Citation year FE	Yes	Yes	Yes	Yes	
Book FE	Yes	Yes	No	No	
Linear pre-trend	No	Yes	No	Yes	
Publication year and field FE	No	No	Yes	Yes	
R-squared	0.400	0.401	0.266	0.266	
N	3,978	3,978	3,978	3,978	
Pre-1942 Mean	0.230	0.230	0.230	0.230	
Standard errors in parentheses clustered at the book level.					
*** p<0.01, ** p<0.05, * p<0.1					

TABLE A13 – DIFFERENTIAL EFFECTS OF ÉMIGRÉ BOOKS. OLS, DEPENDENT VARIABLE IS CITATIONS PER BOOK AND YEAR

Notes: The dependent variable measures citations to book *i* per year *t* between 1920 and 1970. The indicator *English* equals 1 for citations by *English-language* authors; the control group are citations to the same books from authors in other languages. The variable *post* equals one for years after 1941. The variable *US émigré* indicates books by mathematicians who emigrated to the United States after the Nazi government took power in 1933. In columns 2 and 4 the depended variable is de-trended by estimating separate linear pre-trends for English-language citations and for citations by authors publishing in other languages, and then controlling for these different trends in the post-period.

	(1)	(2)	(3)	(4)
25 miles * nost	0 18/***			0 1/5***
25 miles * post	(0.047)			(0.046)
50 miles * post	(0.017)	0.138***		(0.0.0)
-		(0.050)		
75 miles * post			0.170***	
25.50 miles * rest			(0.040)	0 205***
25-50 miles * post				(0.205^{***})
50-75 miles * post				-0.126**
Free Press				(0.060)
75-100 miles * post				-0.039
				(0.057)
Year FE	Yes	Yes	Yes	Yes
Location FE	Yes	Yes	Yes	Yes
R-squared	0.272	0.269	0.269	0.279
Ν	4,752	4,752	4,752	4,752
Pre-1942 Mean	0.031	0.031	0.031	0.031
Standard errors in parenthe	ses clustered at the	location level. *	*** p<0.01, ** p	<0.05, * p<0.1

 TABLE A14 – OLS,

 DEPENDENT VARIABLE IS NUMBER OF CITATIONS BY ENGLISH-LANGUAGE PUBLICATIONS

Notes: The dependent variable counts new citations by English-language publications to BRP books in mathematics from location *k* in year *t*. The indicator *x miles* equals 1 for locations that are within *x* miles from a library that acquired at least one BRP book by 1956. The indicator *x-y miles* equals 1 for locations that are between *x* and *y* miles away from a library with BRP books. The variable *post* equals 1 for years after 1941.

	(1)	(2)	(3)	(4)	(5)	(6)
BRP			0.220***			0.141**
			(0.057)			(0.059)
BRP x post	0.393***	0.393***	0.420***	0.107	0.107	0.116
-	(0.083)	(0.083)	(0.085)	(0.076)	(0.076)	(0.078)
BRP x Δp x post				0.971***	0.971***	1.068***
				(0.338)	(0.338)	(0.305)
				`		~ /
R-squared	0.549	0.544	0.142	0.552	0.547	0.164
Citation Year FE	Yes	Yes	Yes	Yes	Yes	Yes
Book FE	Yes	Yes	No	Yes	Yes	No
Linear pre-trend	No	Yes	No	No	Yes	No
Publication Year FE	No	No	Yes	No	No	Yes
Subject FE	No	No	Yes	No	No	Yes
R-squared	0.549	0.544	0.142	0.552	0.547	0.164
N	29,879	29,879	29,241	29,504	29,504	28,894
Pre-1942 Mean	0.263	0.263	0.268	0.264	0.264	0.269
Standard errors in parentheses are clustered at the book level. *** p<0.01, ** p<0.05, * p<0.1						

TABLE A15 –OLS, INCLUDING BOOKS THAT ARE NOT IN THE NUC, DEPENDENT VARIABLE IS
CITATIONS PER BOOK AND YEAR

Notes: OLS regressions for the full sample of BRP and Swiss books, including books that are not listed in the National Union Catalog (which captures the holdings of US libraries.) The dependent variable measures citations to book *i* per year *t* between 1920 and 1970. The indicator *BRP* equals 1 for 291 books that were licensed to US publishers under the 1942 Book Republication Program (BRP). The control group covers 486 Swiss books that were not available for licensing due to Switzerland's neutrality during the war. The variable *post* equals for years after 1941. The variable Δp measures the difference between the original price and the BRP price for book *i*, divided by the original price. In columns 2 and 6 the dependent variable is de-trended by estimating separate linear pre-trends for BRP and Swiss books for pre-BRP years and controlling for trends in the post-period.



Notes: Original (pre-BRP) and BRP prices for 55 books in mathematics (left) and 228 books in chemistry (right). Two chemistry books sold for an original price of \$2,000 each: Beilstein's *Handbuch der Organischen Chemie* (with a BRP price of \$400) and Saccardo's *Silloge Fungorum* (with a BRP price of \$200). The most expensive math books are Courant's *Grundlagen der Mathematik* (with an original price of \$32.6 and a BRP price of \$25.6) and Courant and Hilbert's *Methoden der Mathematischen Physik* (with an original price of \$28.2 and a BRP price of \$14).



Notes: Data on the share of German-language operas collected from historical schedules of performances in the online archives of the Metropolitan Opera in New York (Moser 2012). *German composers* include Carl Maria von Weber, Engelbert Humperdinck, Friedrich Handel, Friedrich von Flotow, Giacomo Meyerbeer, Hermann Goetz, Jacques Offenbach, Ludwig van Beethoven, Max von Schillings, Peter Cornelius, Richard Strauss, and Richard Wagner. *German-language composers* further include Austrian composers Wolfgang Amadeus Mozart, Ernst Krenek, Franz von Suppé, Johann Strauss Jr. and Franz Schubert and the Bohemian Christoph von Gluck. Composers are assigned to ethnicities based on their country of birth, which means that Beethoven and Handel are counted as German, even though Beethoven was also active in Vienna and Handel in London.



Notes: Citations *Methoden der Mathematischen Physik* (1931) by new scientific publications (book and articles) per year. Citations data from Google Scholar (http://scholar.google.com) between July 1st and September 25th, 2014. We restrict the data to new publications that cite the original German language versions of BRP books, and exclude citations to English translations (here, *Methods of Mathematical Physics*, 1966).

FIGURE A4 – DECLINE IN PRICE FOR BRP BOOKS WITH FEW AND MANY PRE-BRP CITATIONS BY AUTHORS PUBLISHING IN OTHER LANGUAGES



Notes: We plot the percentage decline in price Δp (calculated as the difference between the original price and the BRP price divided by the original pre-BRP price) against the pre-BRP counts of citations per year to the same BRP book by publications in other languages. The solid lines plots the linear correlation between Δp and pre-BRP citations with a 5 percent confidence interval. One additional citation by a non-English publication before the BPR is associated with an additional 3.6 percentage point decline in price (with a p-value of 0.18).



FIGURE A5– PUBLICATION YEARS FOR POTENTIAL SUBSTITUTES FOR BRP BOOKS

Notes: Books that customers on Amazon who bought BRP books "also bought" or "frequently bought together" with BRP books by the publication year of their first edition. For the four most highly cited BRP books in mathematics: Courant and Hilbert (1931) *Methoden der Mathematischen Physik,* Alexandroff and Hopf (1935), van der Waerden (1931), *Moderne Algebra*, Nevanlinna (1936), *Eindeutige analytische Funktionen* (R. Nevanlinna, 1936). Data collected from <u>www.amazon.com</u>, accessed September 21-30, 2016).



Notes: Citations per book and year for 228 BRP chemistry books by new scientific publications in English compared with citations to BRP books by new publications in other languages (which did not benefit directly from the BRP). Citations collected from Google Scholar (http://scholar.google.com, accessed July 1st-September 25th, 2014).



Notes: In the main specifications, we compare citations to a matched sample of BRP and Swiss books. This figure plots the raw counts of *all* citations by new English-language publications to BRP and Swiss books in the National Union Catalog (NUC). Data include 5,141 English-language citations to 283 BRP books and 247 Swiss by new publications between 1930 and 1970 collected from Google Scholar (http://scholar.google.com, accessed July1st to September 25th, 2014).

FIGURE A8 – SHARE OF LIBRARIES THAT HAD ACQUIRED A BRP BOOK BY 1956 VS ITS PRICE DECLINE IN 1942



Notes: The share of libraries that had acquired a BRP book *i* by 1956 against the decline in price for the same book in 1942. Each additional 10 percent decline in price was associated with a 1.3 percent increase in the share of libraries that held a BRP book (with a p-value of 0.00). Excluding outliers (such as Beilstein), which can be found in more than 40 percent of US libraries, leaves the estimate at 0.8 (with a p-value of 0.00). We constructed data on libraries holdings of BRP books a physical copy of the National Union Catalog (Mansell 1968-1981), which is available in the Hoover Institution Library and Archives.





Notes: Citations by scientific publications per book and citation year for 55 BRP math books., by distance of the author from a library holding at least one BRP book. We have collected data on the geographic locations of authors from records of PhD granting institution of advisors and advisees in the Mathematics Genealogy Project (available at http://www.genealogy.ams.org, accessed January 28th-March 10, 2016). Data on libraries holdings were constructed from the records of the National Union Catalog (Mansell 1968-1981) at the Hoover Institution Library and Archives.



FIGURE A10 – LOCATIONS OF NEW PHDS AND BRP BOOKS IN MATH

Notes: Black circles map the locations of US libraries where BRP math books had become available by 1956. Red circles show the locations of PhD-granting institutions; the size of the red circle represents the number of citations from a location. We have collected data on the geographic locations of authors from records of PhD granting institution of advisors and advisees in the Mathematics Genealogy Project (http://www.genealogy.ams.org, accessed January 28th-March 10, 2016).