

Online Supplementary Material (Appendices)

to accompany

Pareto distributions, top incomes, and recent trends in UK income inequality

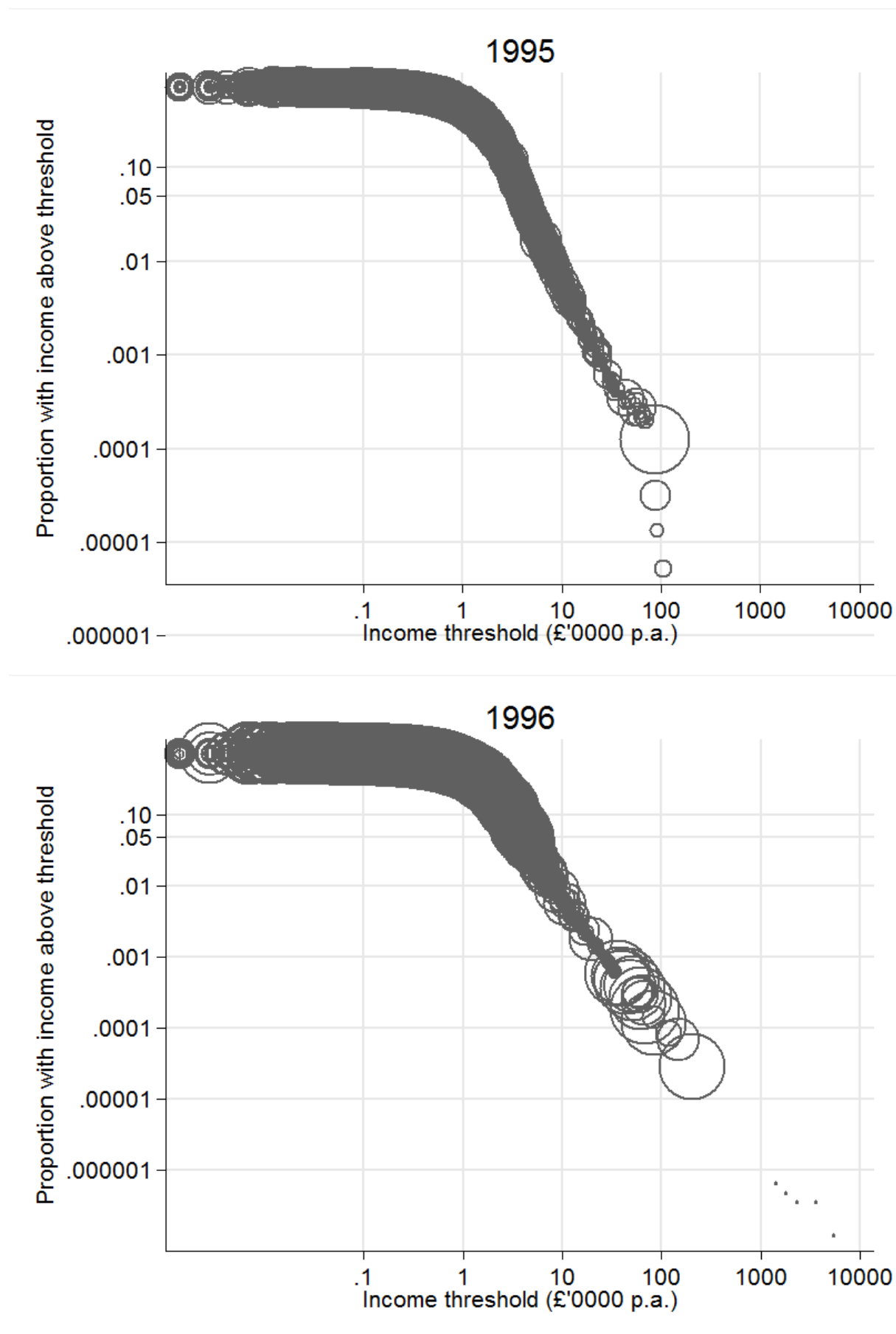
Stephen P. Jenkins
(LSE, ISER (University of Essex), and IZA)

March 2016

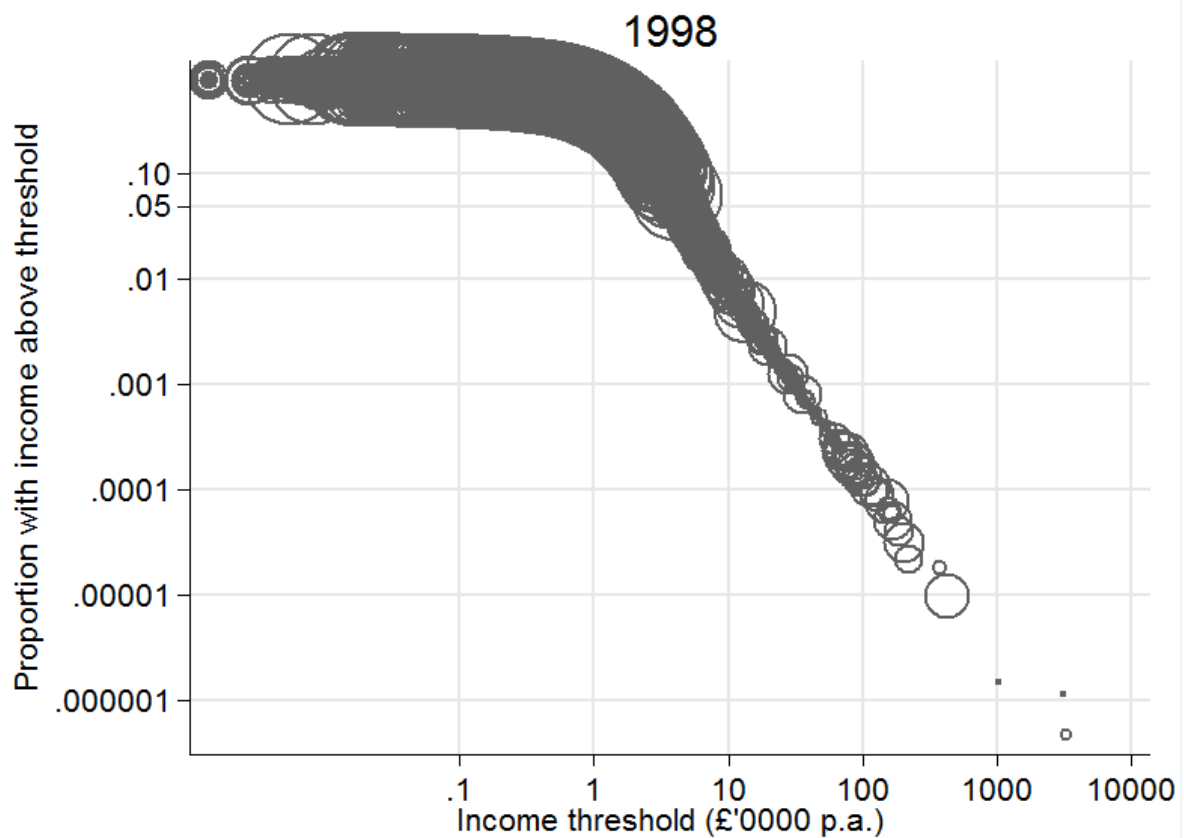
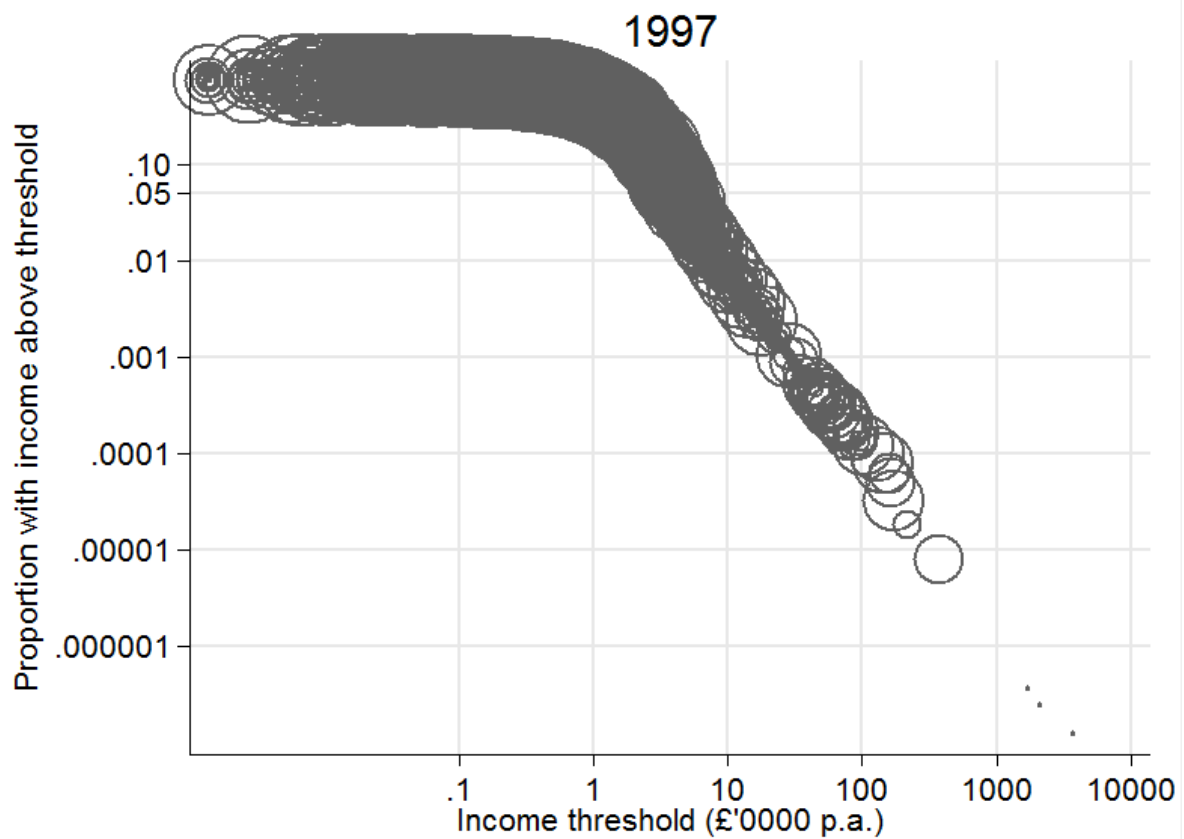
Appendices:

- A. Zipf plots, by year
- B. Mean excess plots, by year
- C. Zenga plots, by year
- D. Likelihood ratio tests, Pareto I versus Pareto II model, by year and threshold
- E. Probability (PP) plots, by year and threshold
- F. Estimated parameters of Pareto I and Pareto II models, by year and three thresholds
- G. Inequality and mean income implied by estimated Pareto I and II model parameters, by year and three thresholds

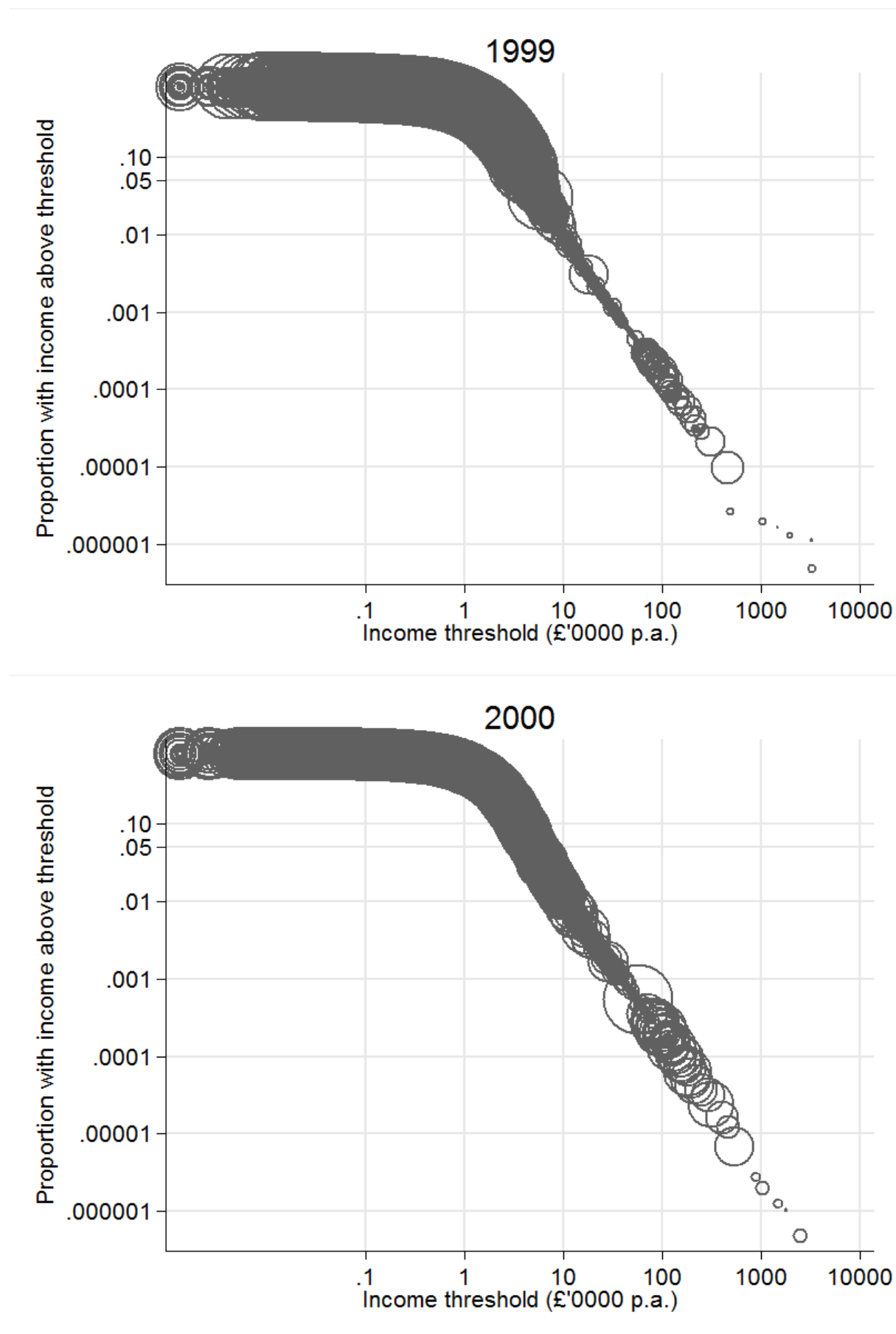
Zipf plots, by year: size of marker proportional to survey weight (pareto11)



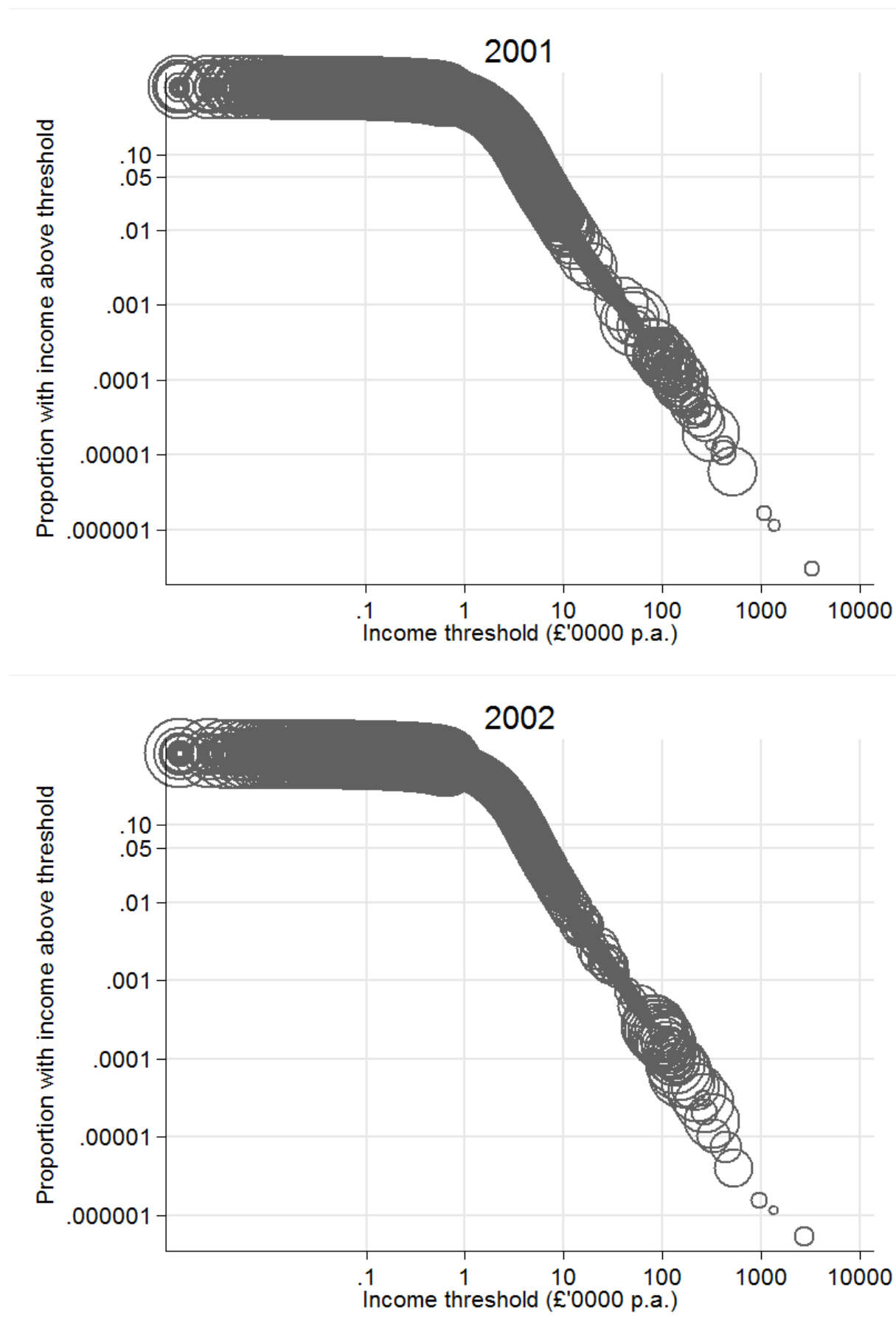
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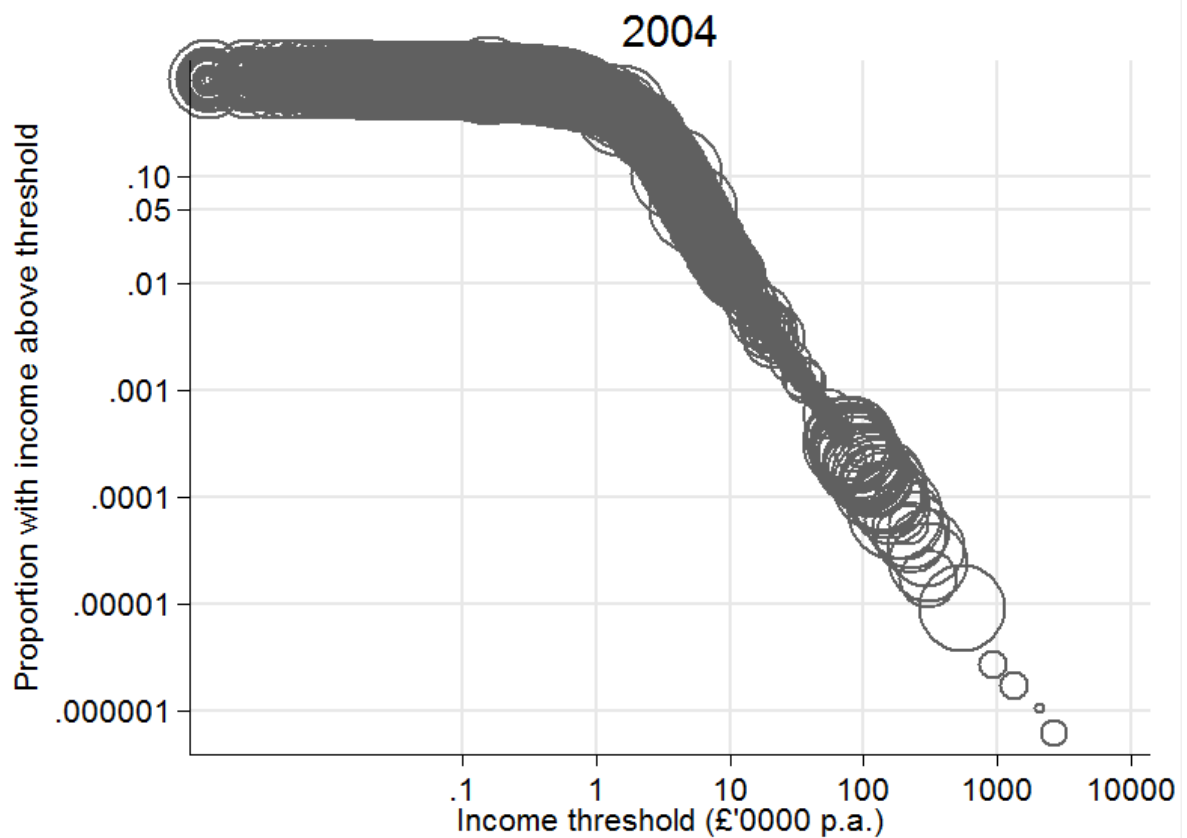
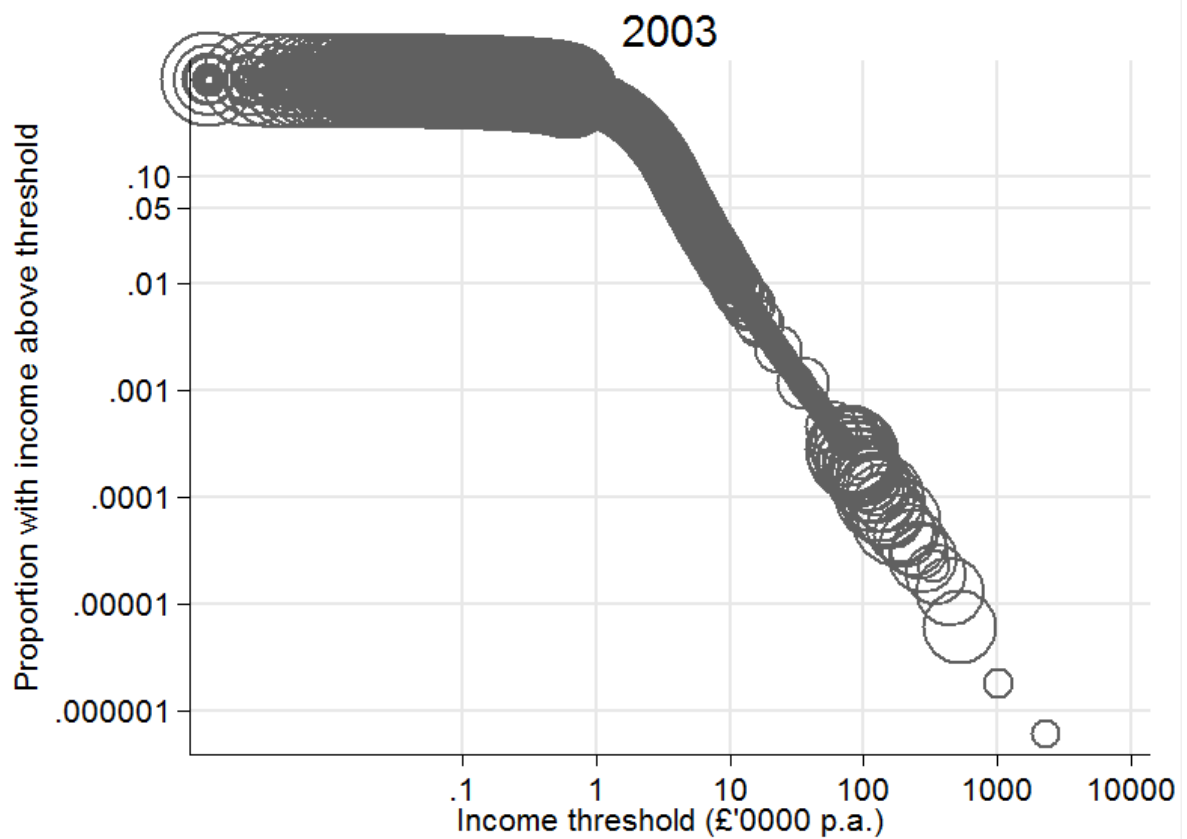
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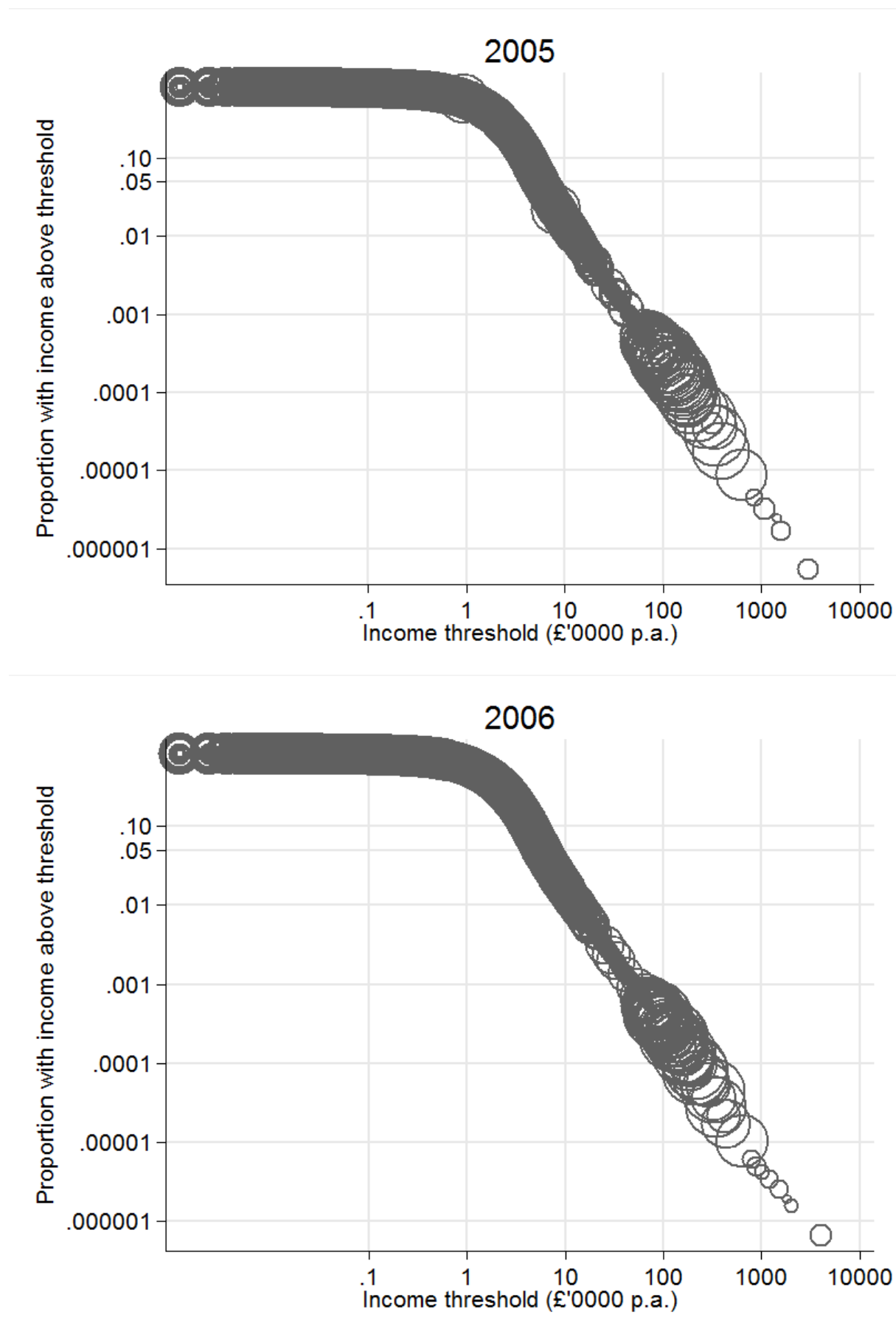
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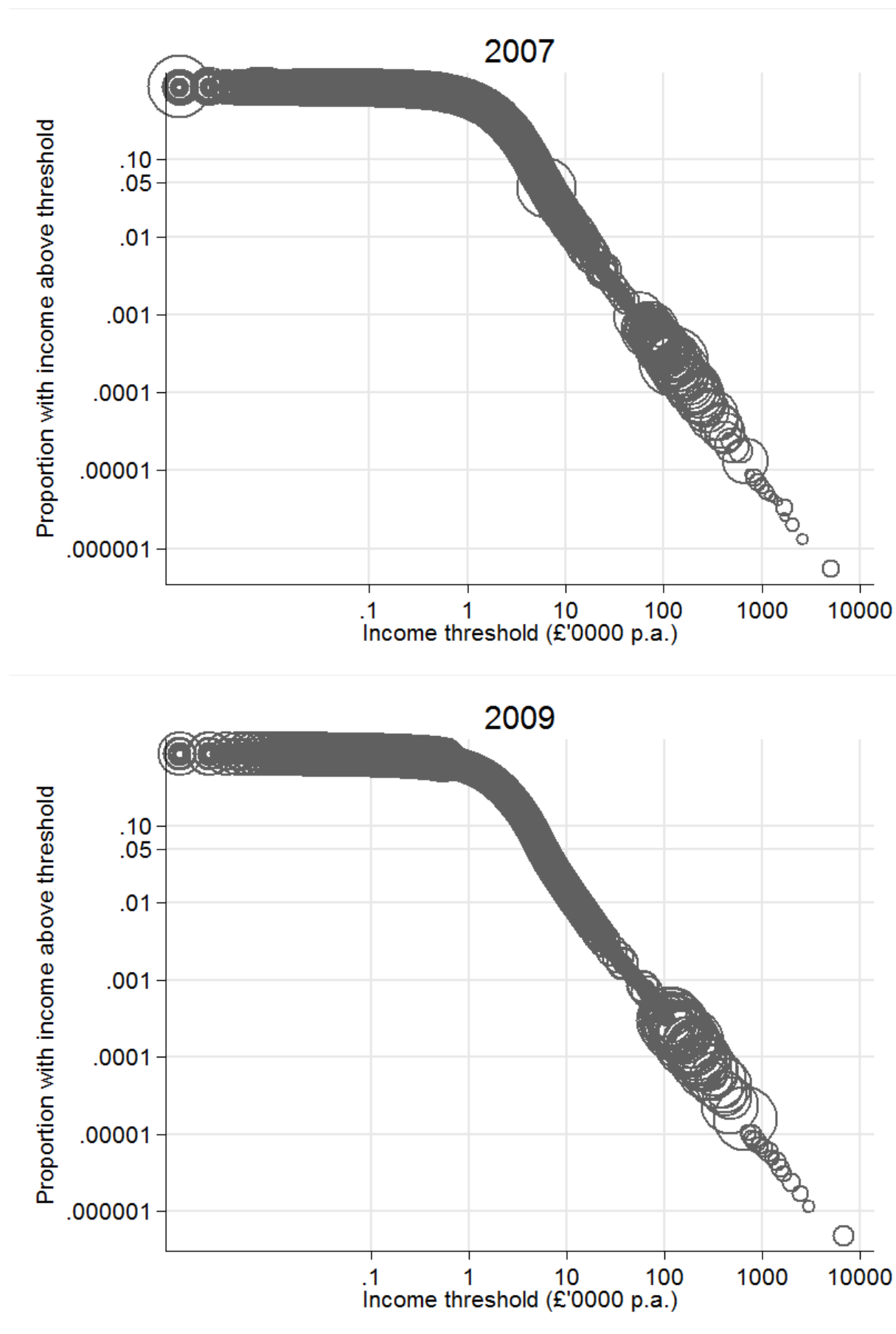
Zipf plots, by year: size of marker proportional to survey weight (pareto11)



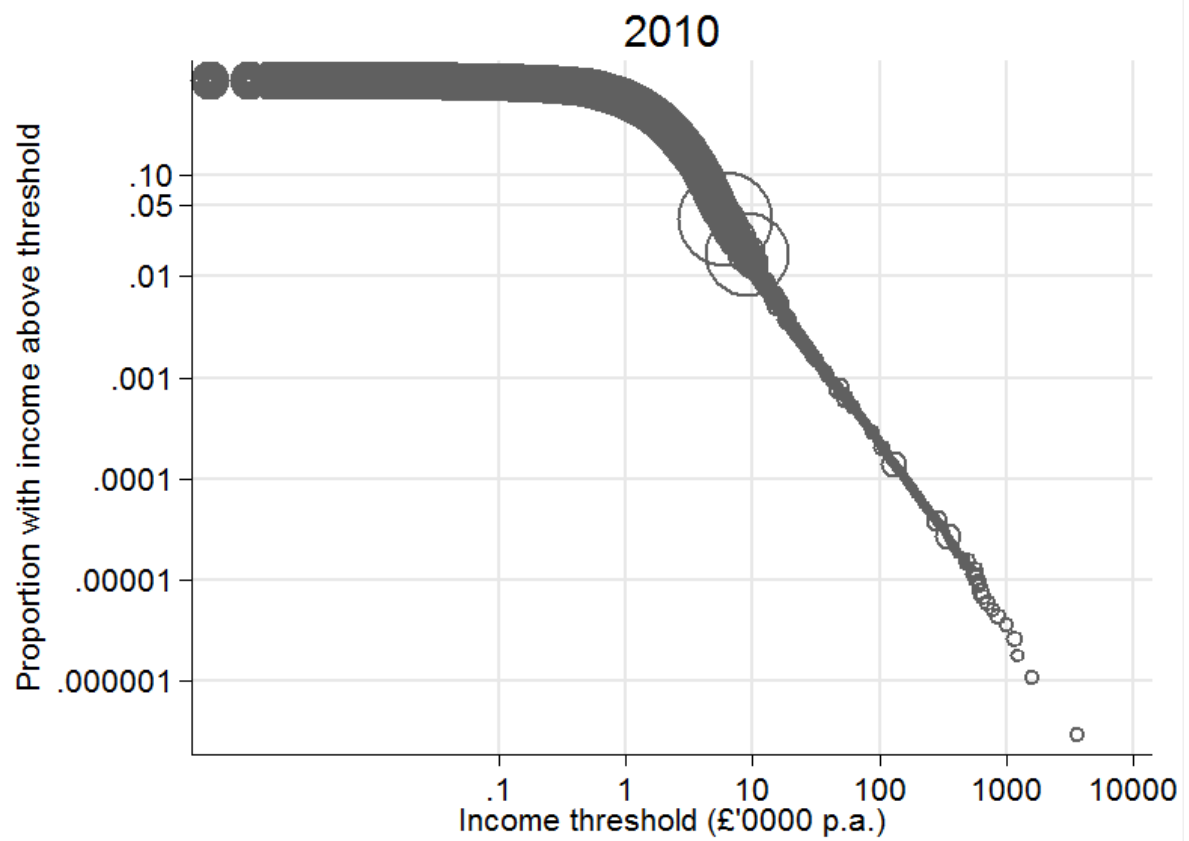
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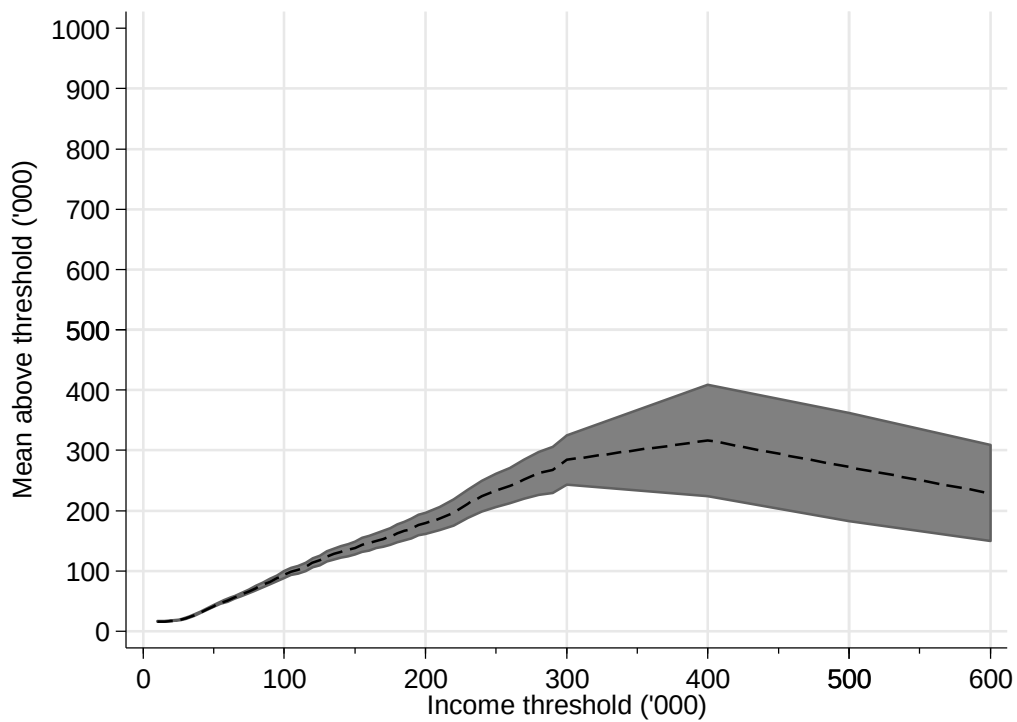


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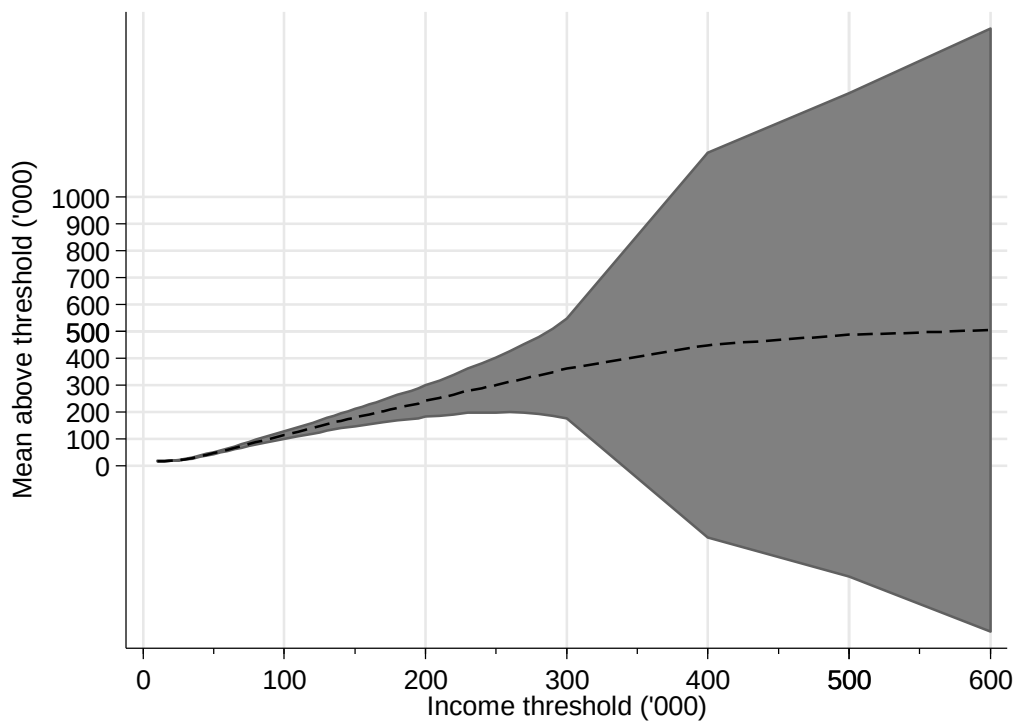


Mean excess plots, by year (pareto03)

1995

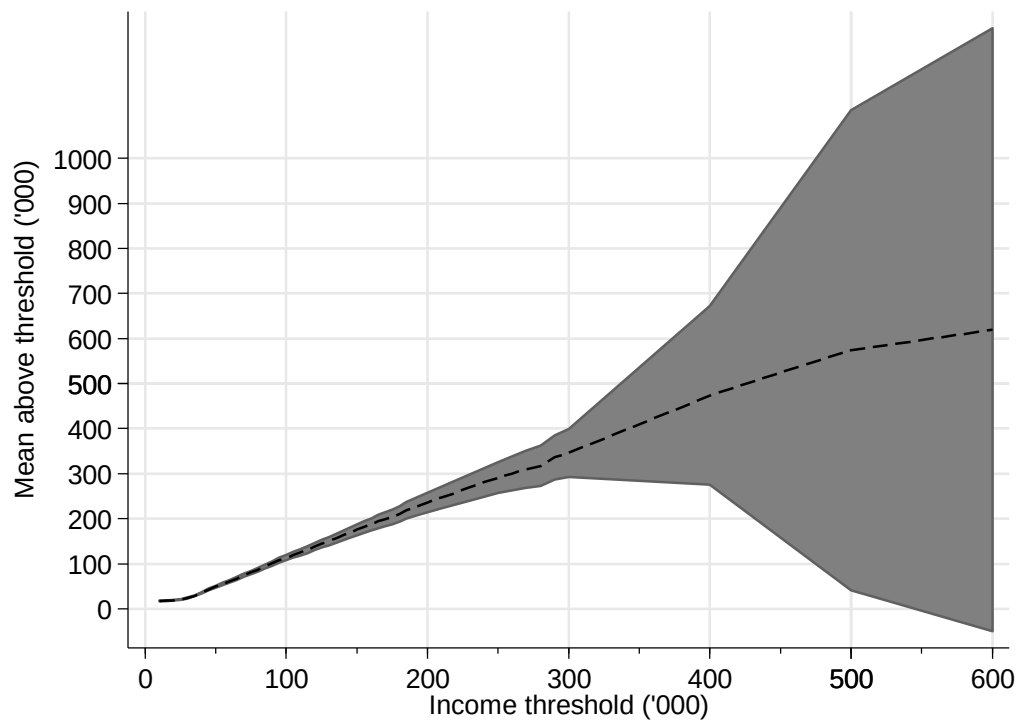


1996

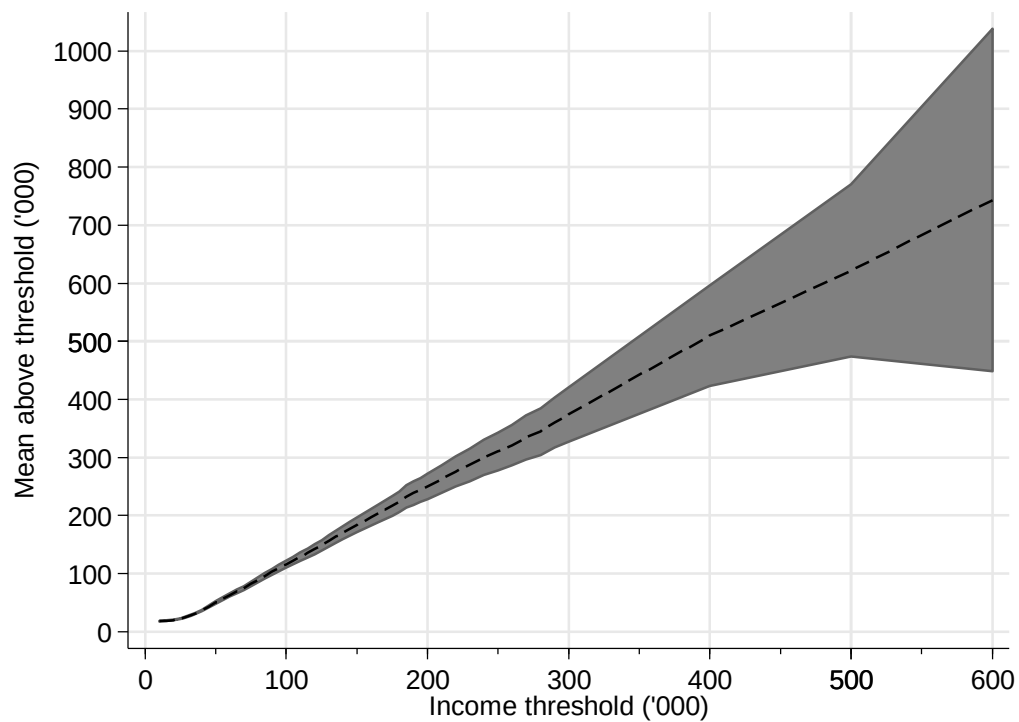


Mean excess plots, by year (pareto03)

1997

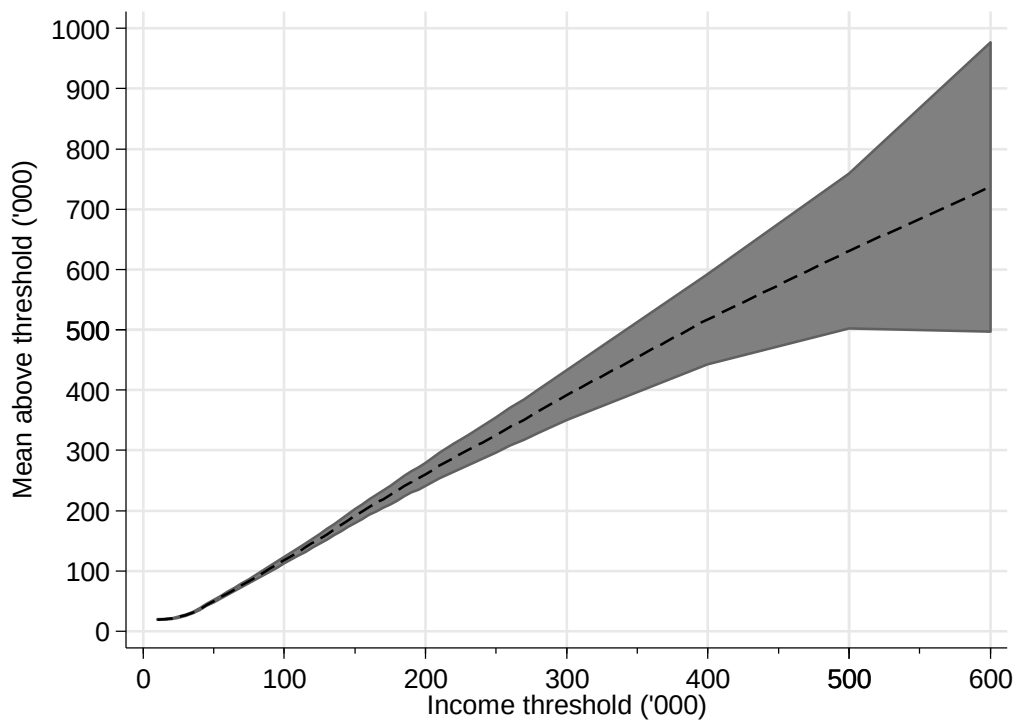


1998

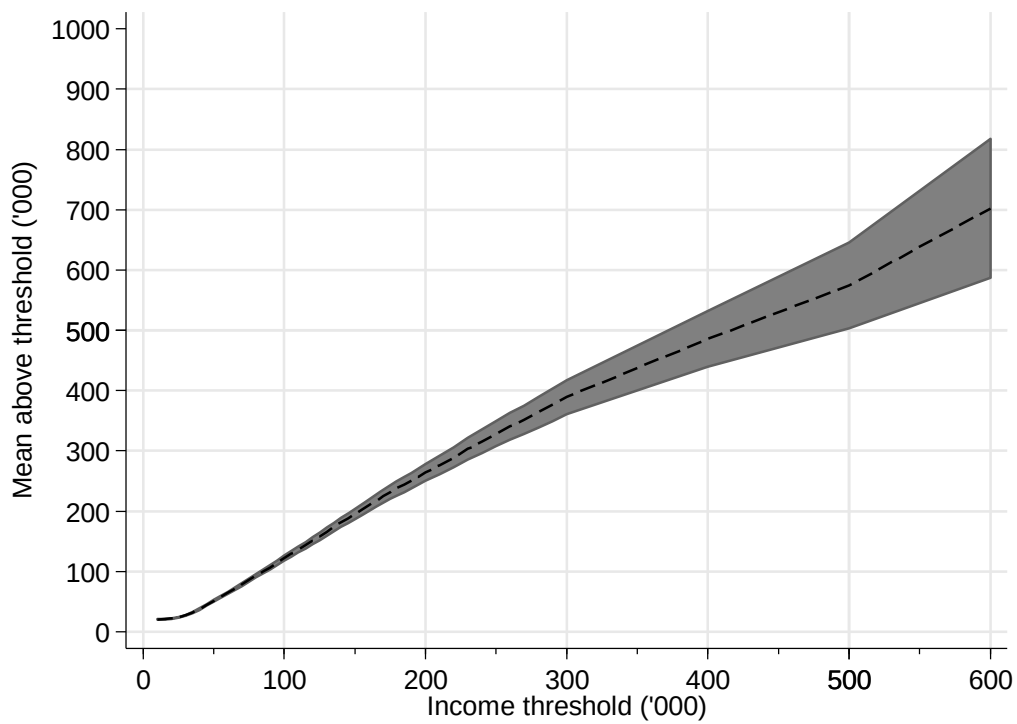


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1999

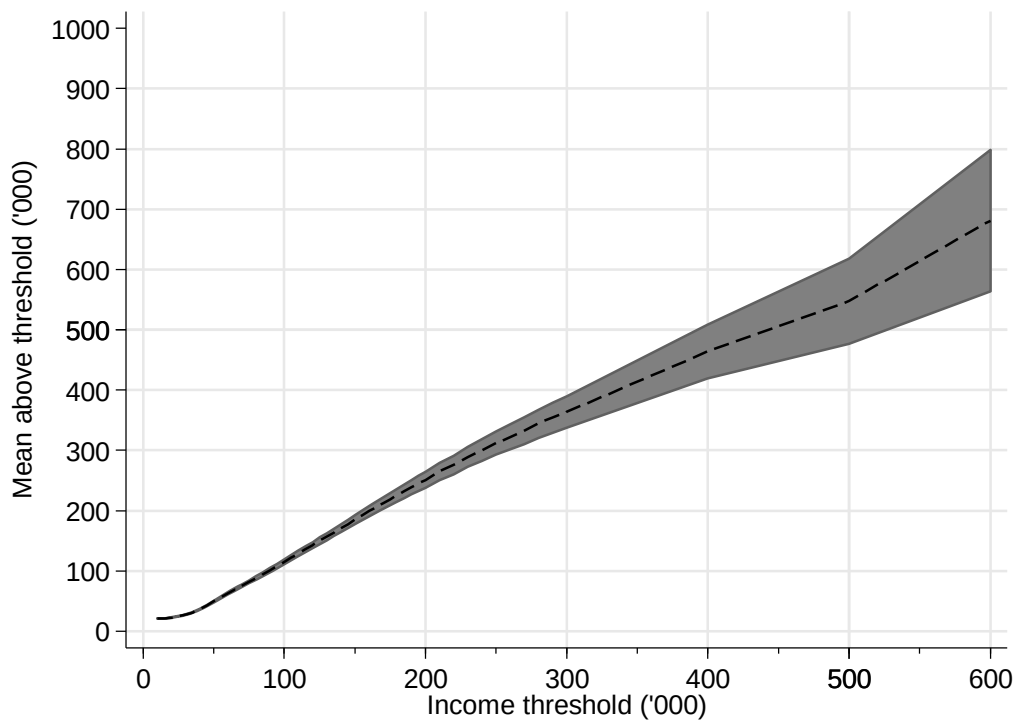


2000

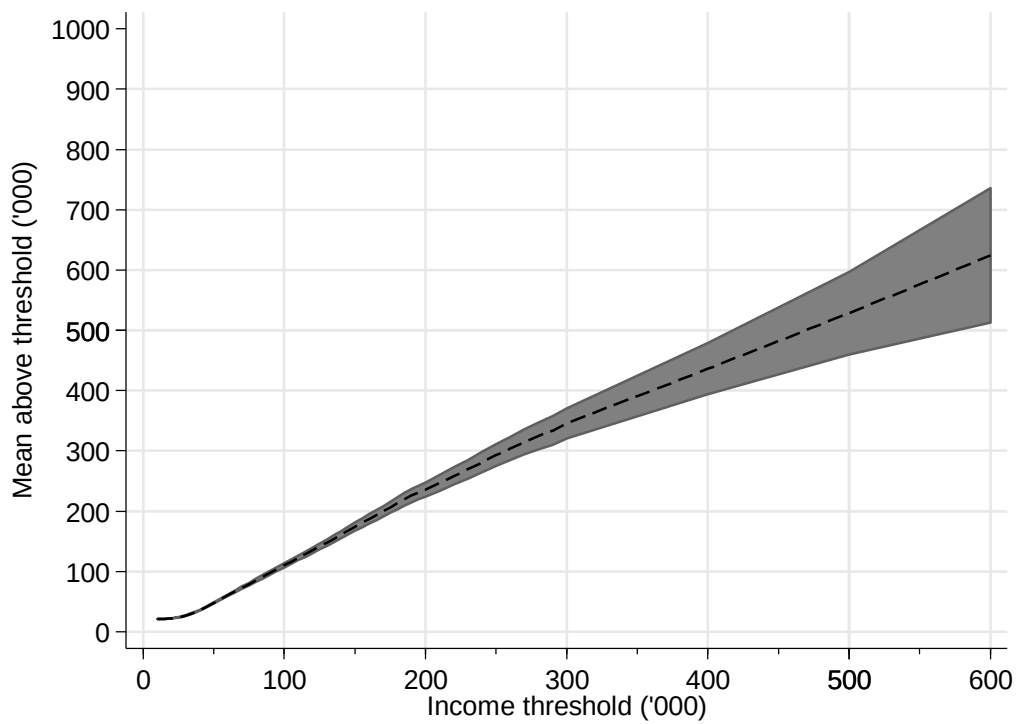


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2001

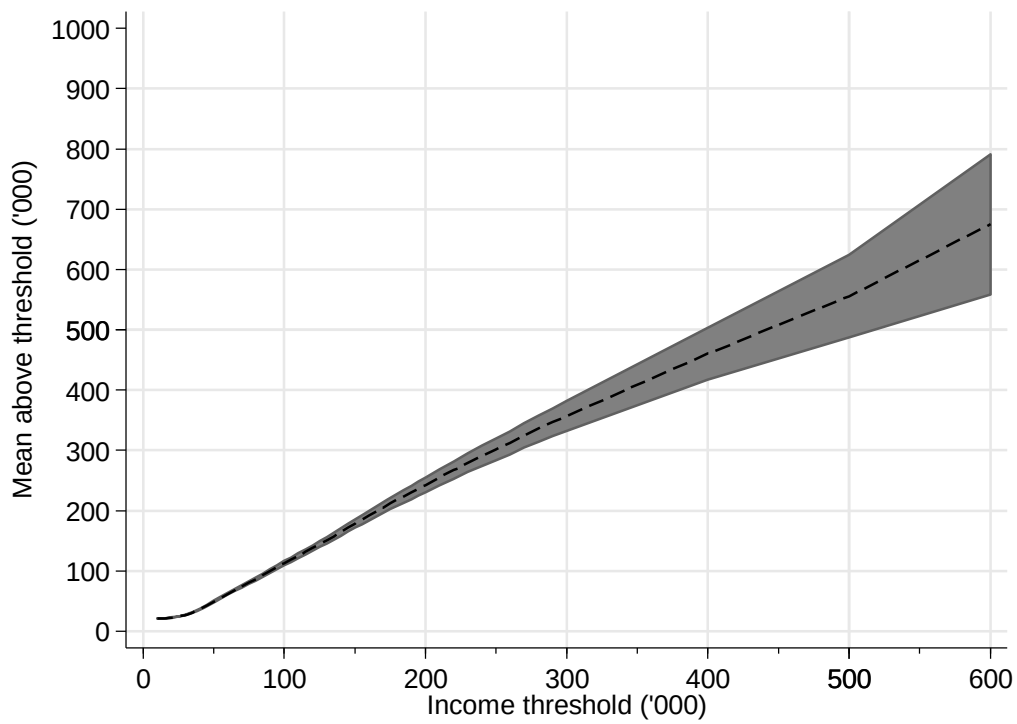


2002

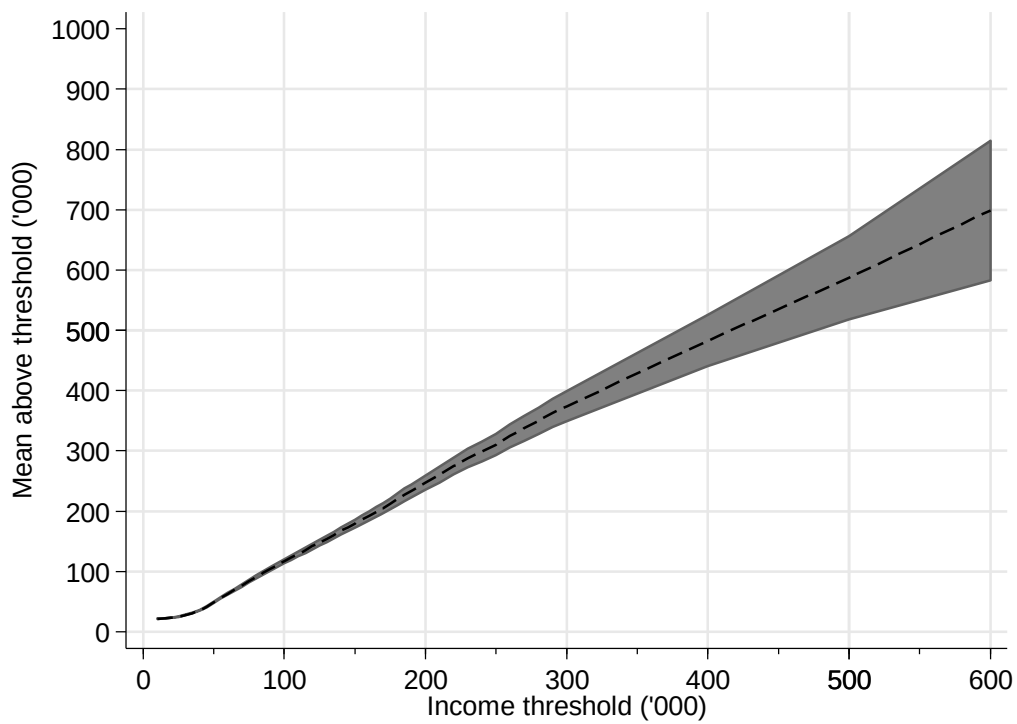


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2003

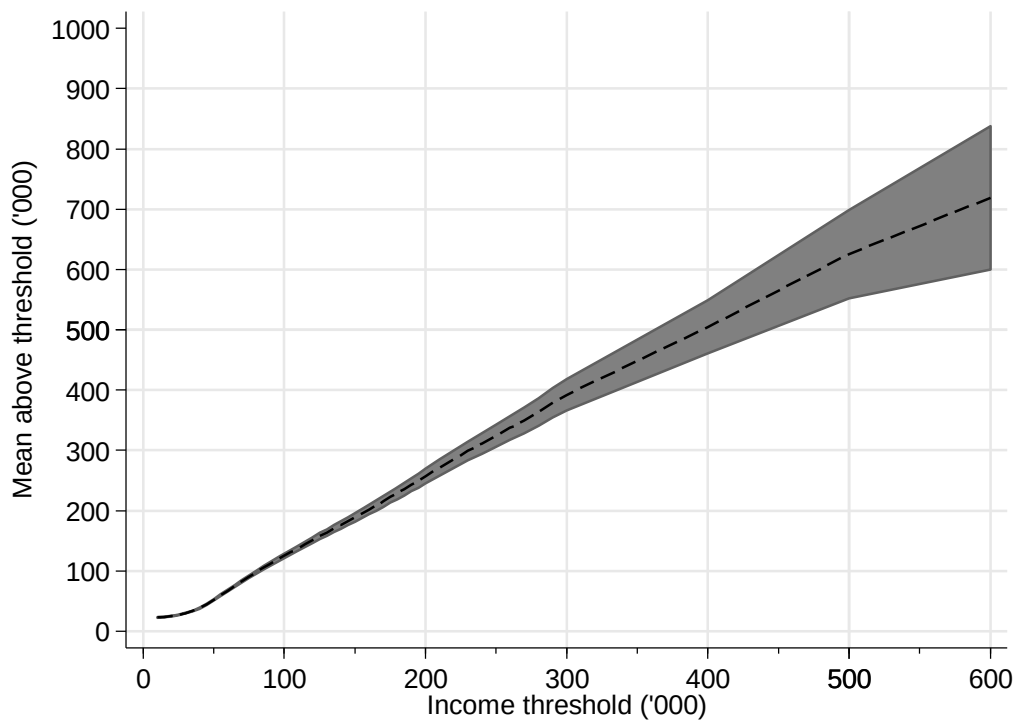


2004

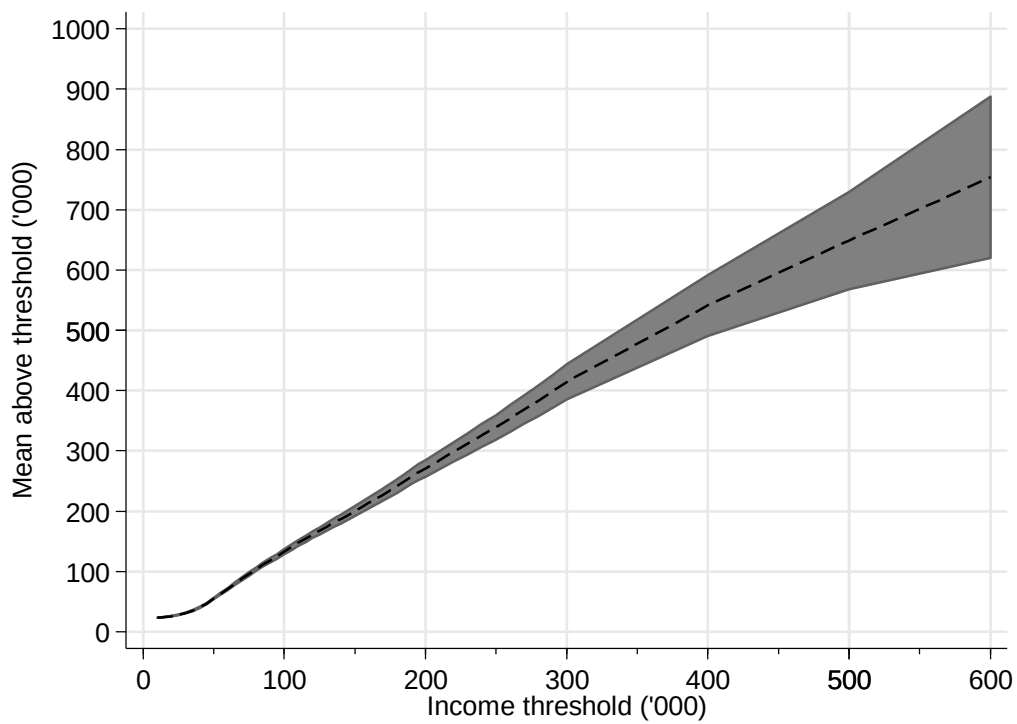


Mean excess plots, by year (pareto03)

2005

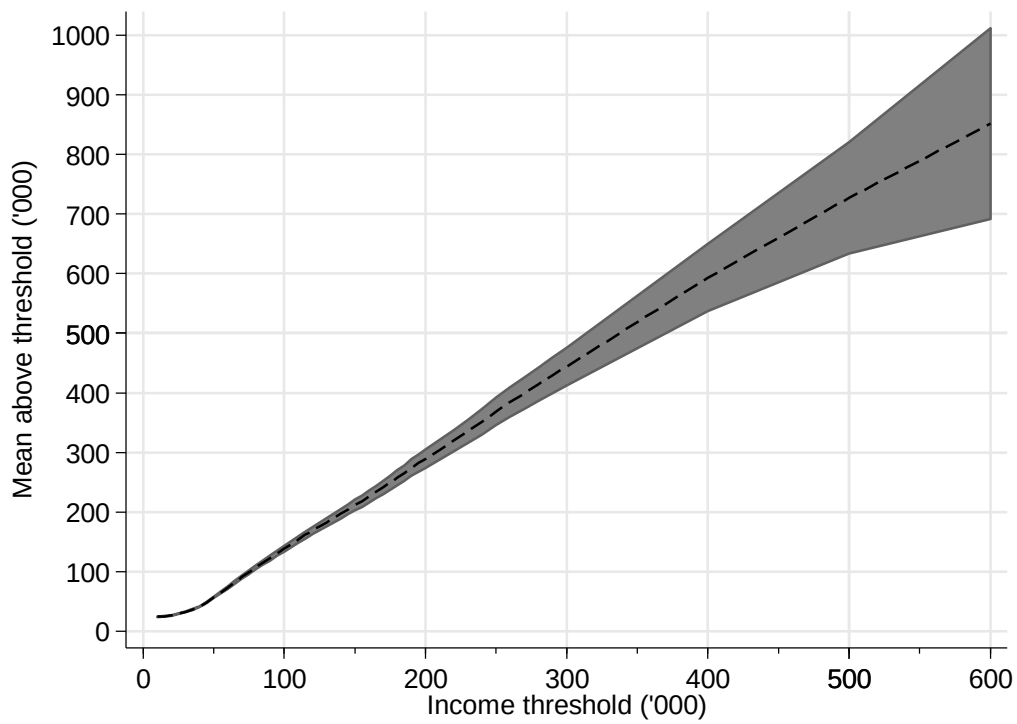


2006

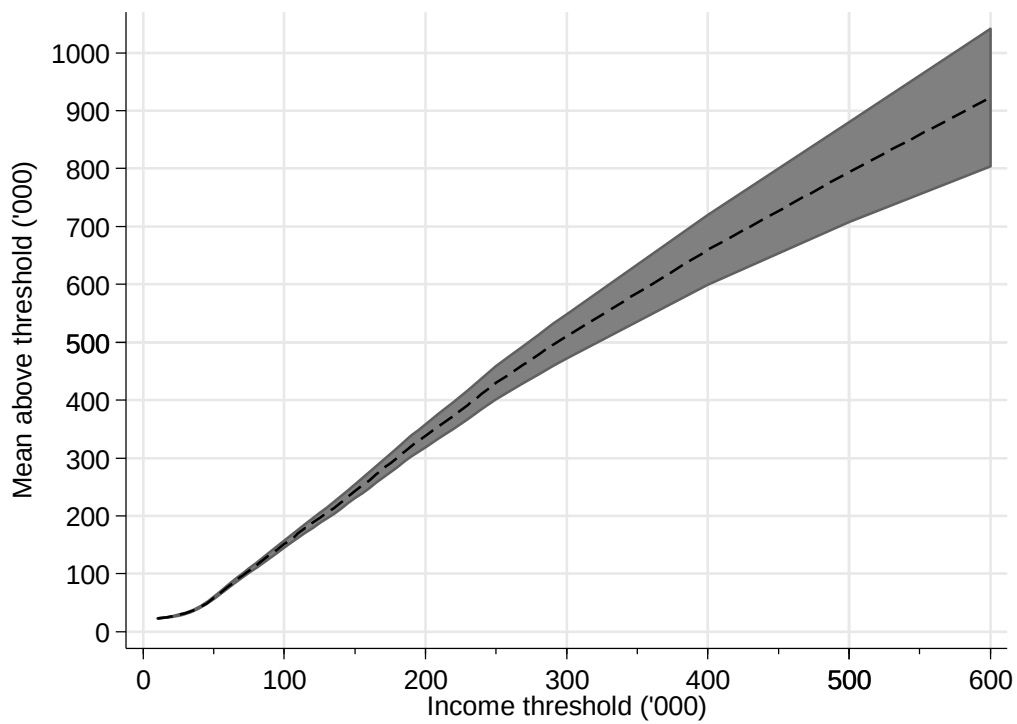


Mean excess plots, by year (pareto03)

2007

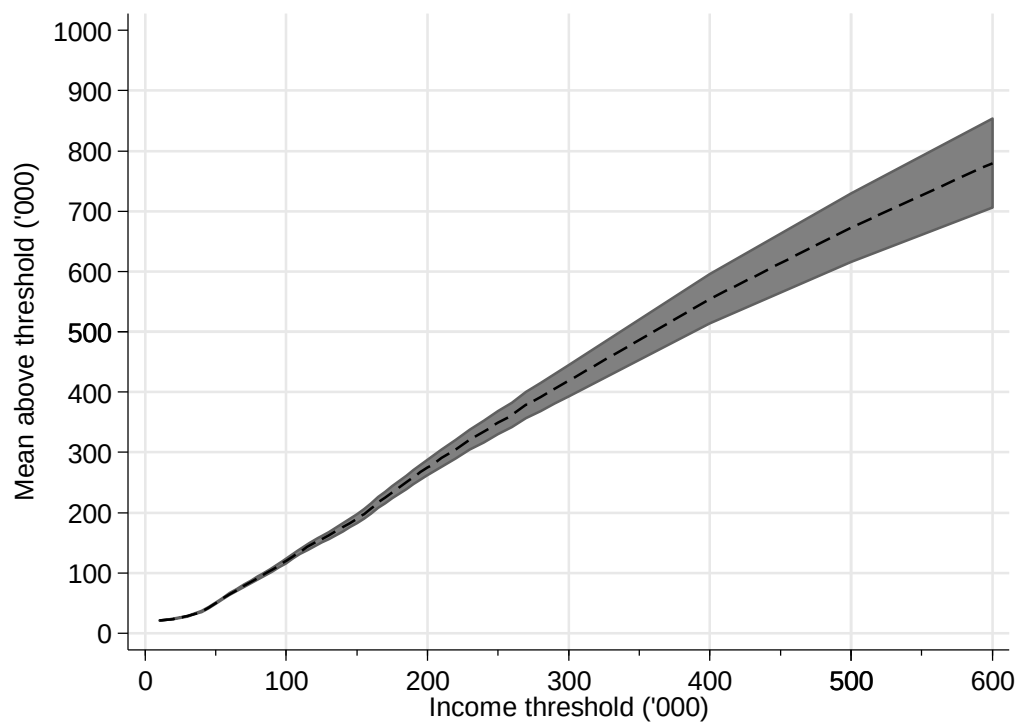


2009



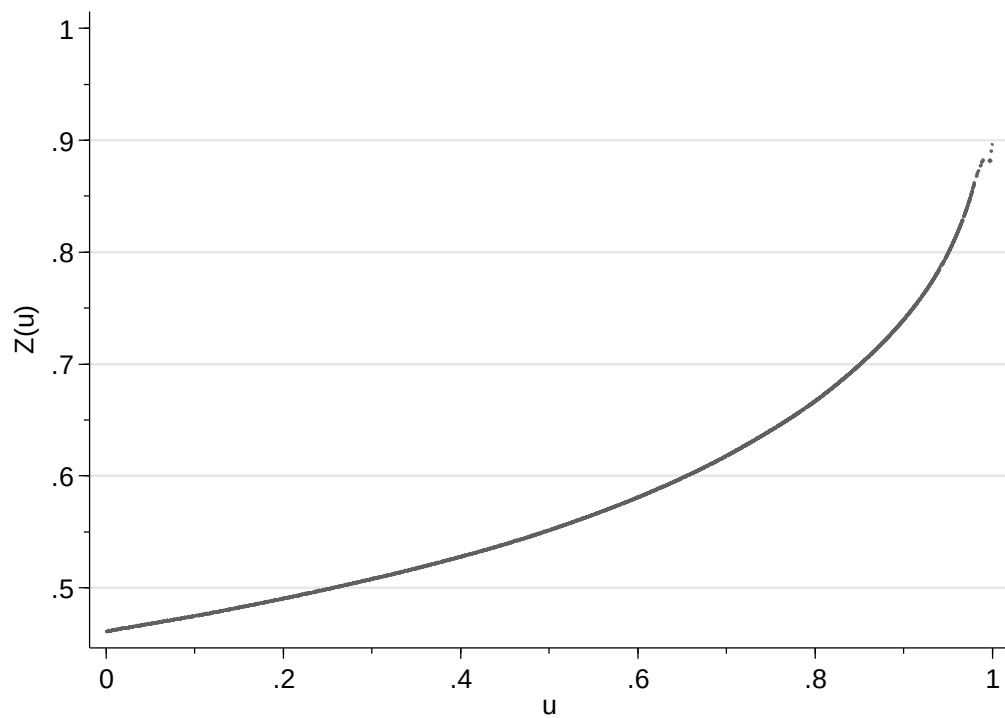
Mean excess plots, by year (pareto03)

2010

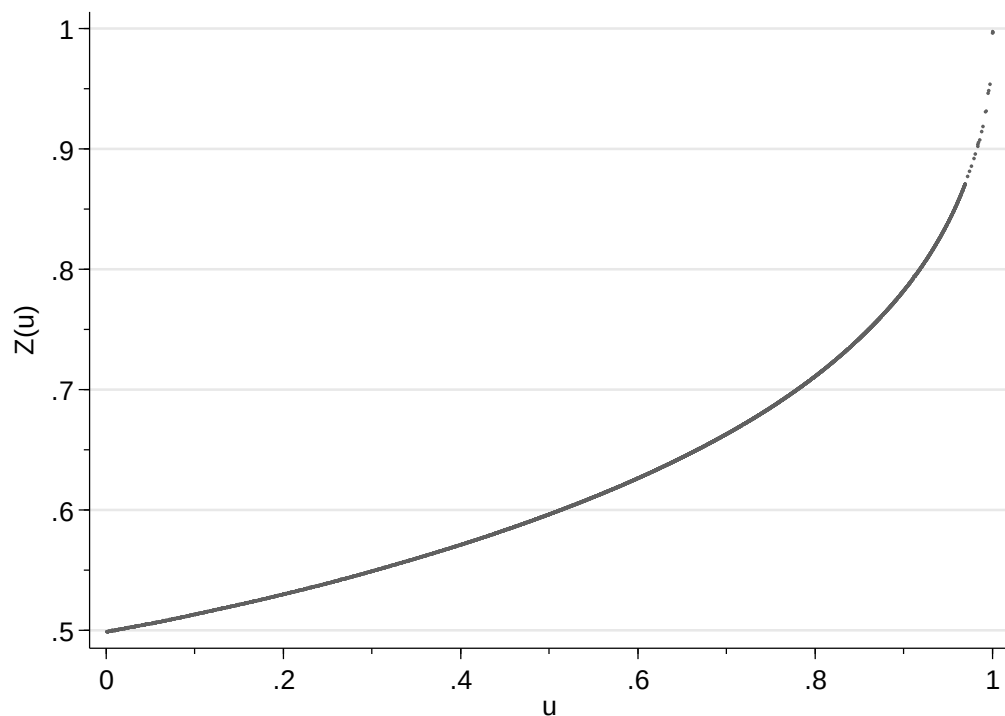


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1995

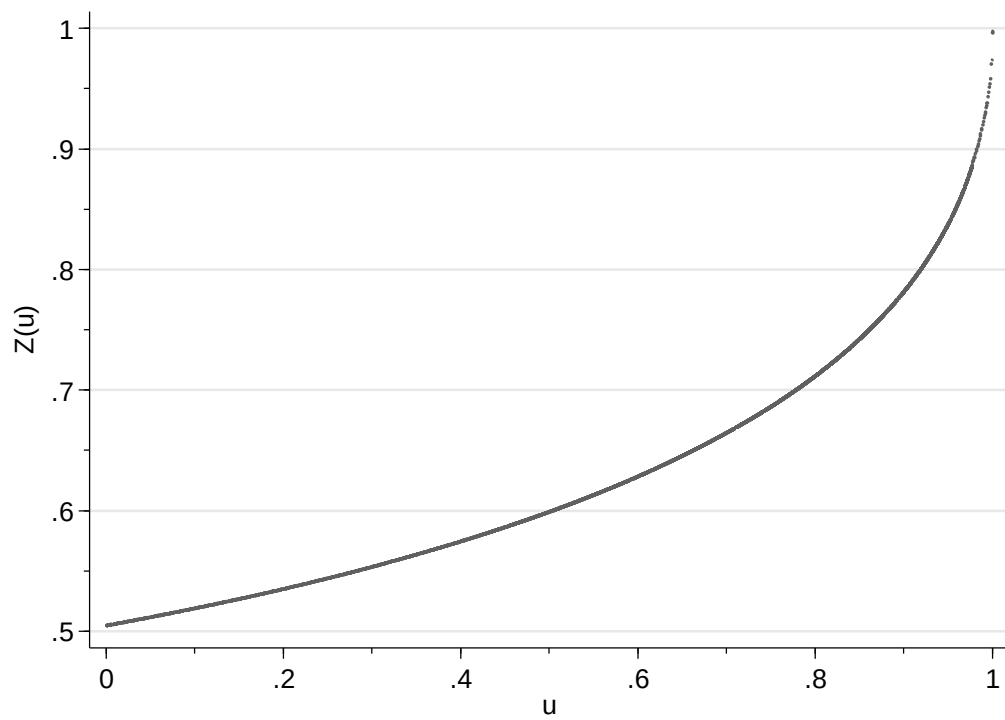


1996

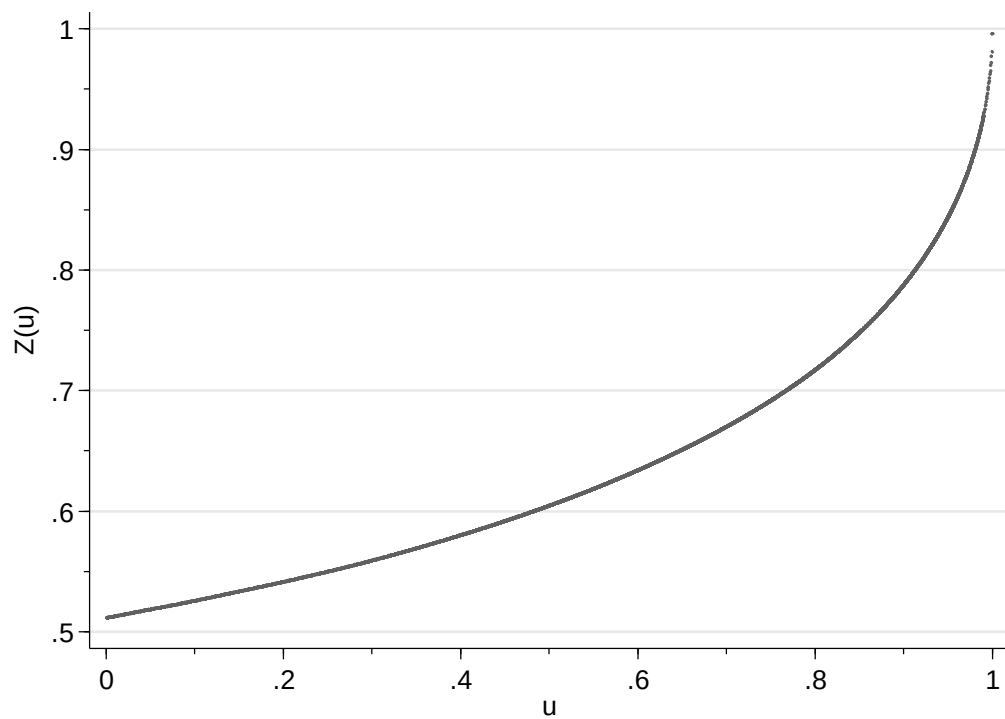


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1997

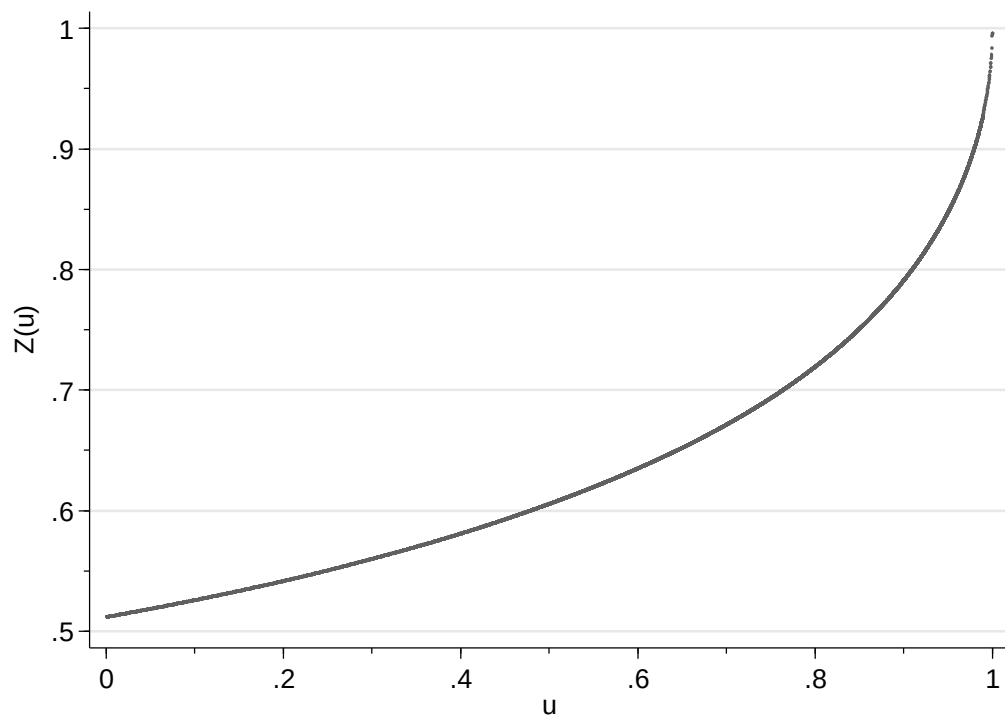


1998

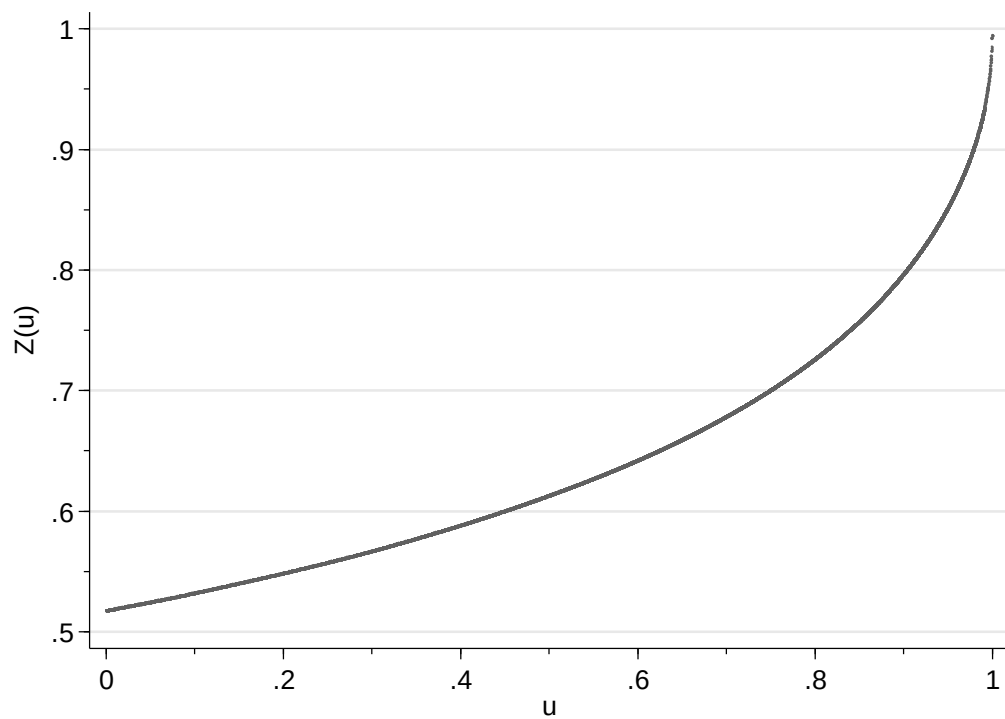


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1999

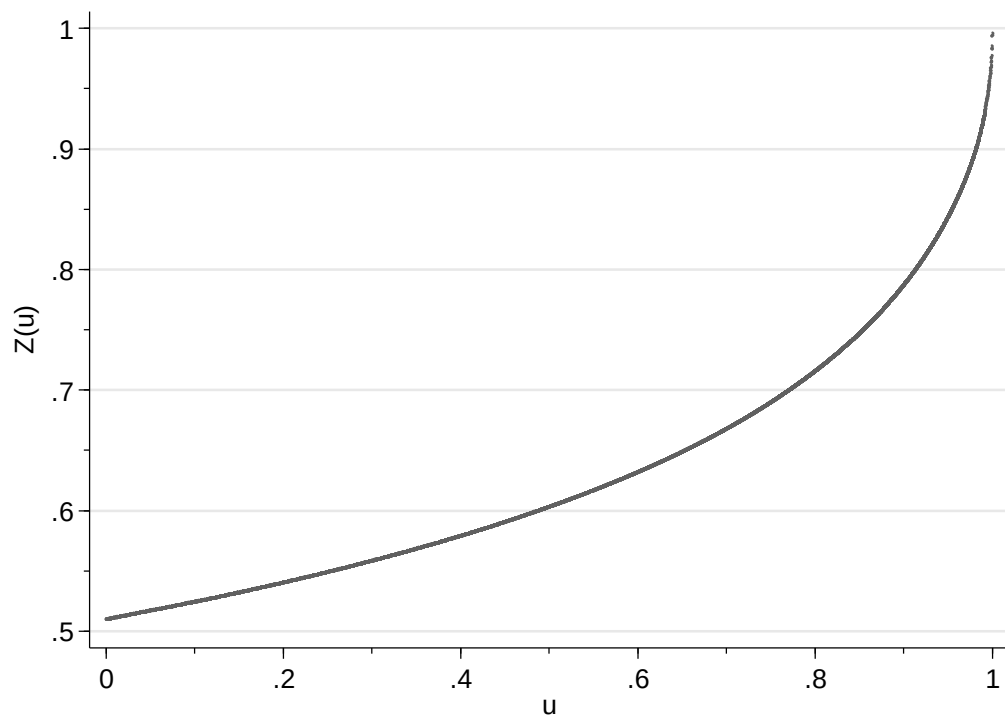


2000

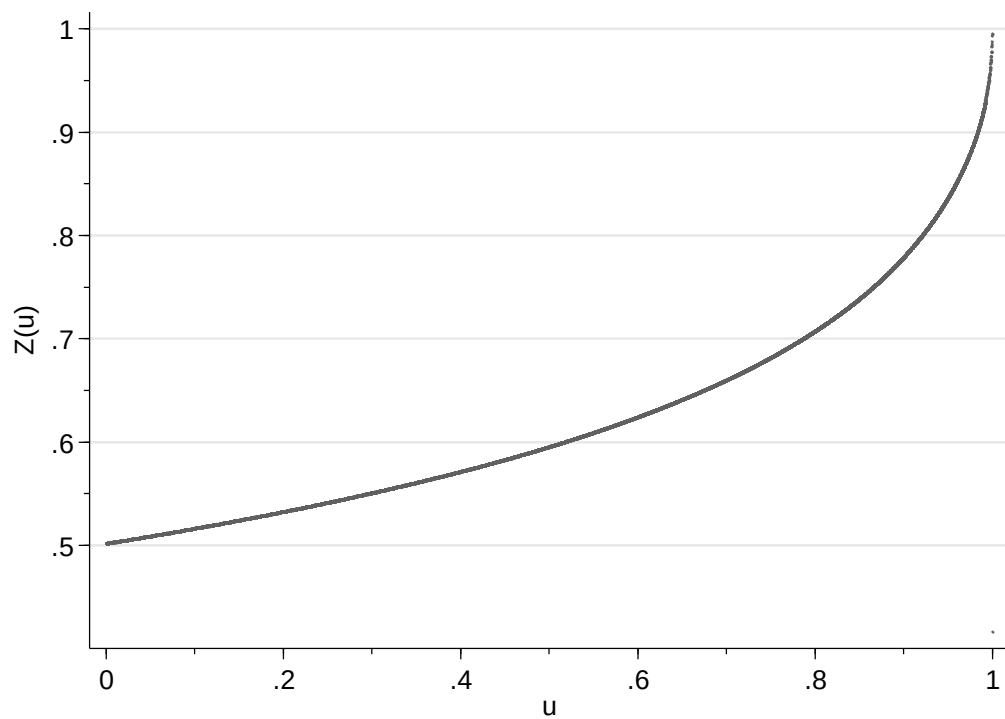


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2001

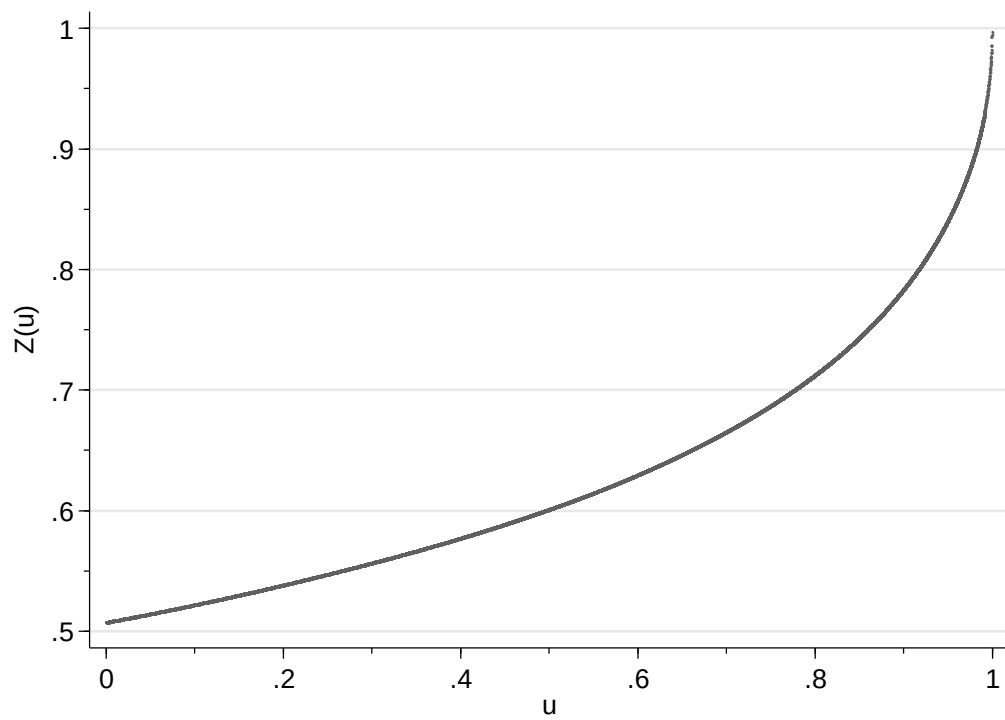


2002

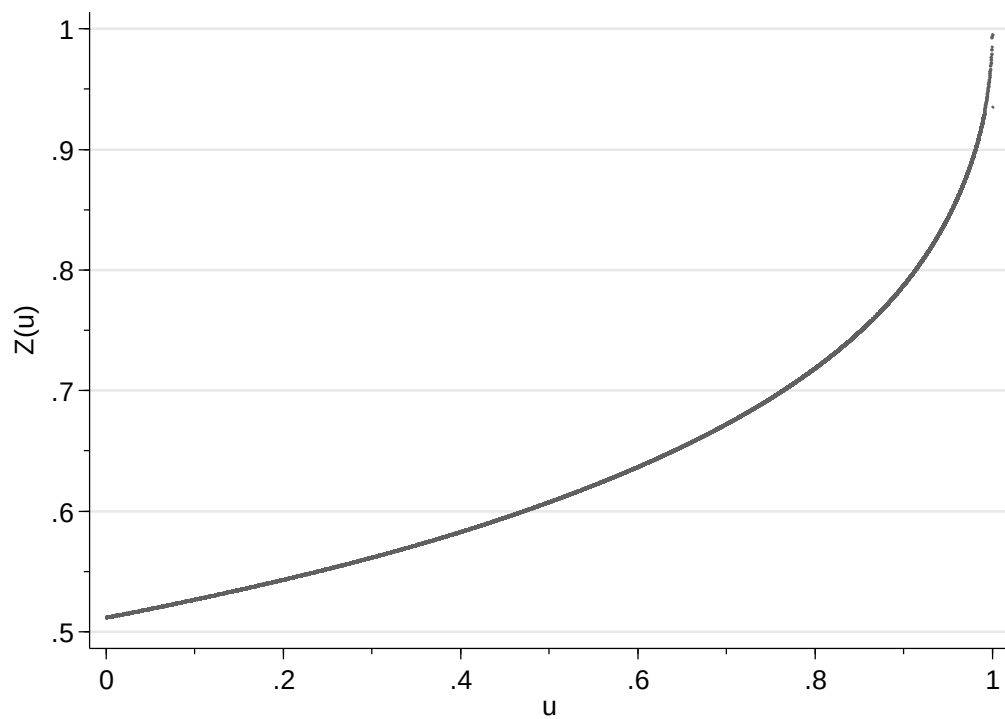


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2003

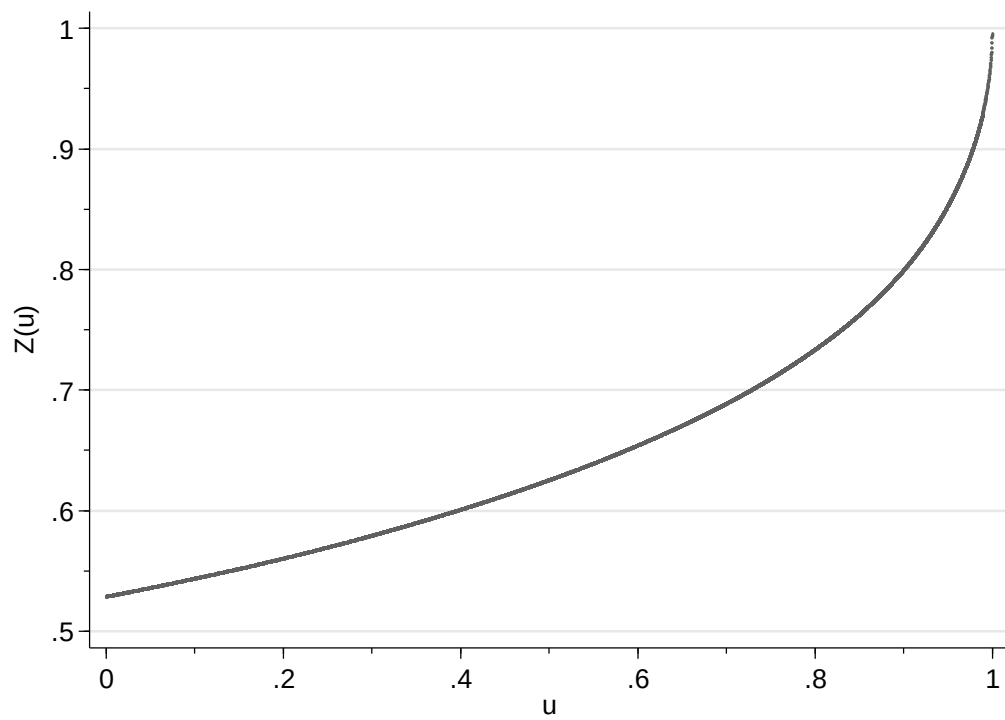


2004

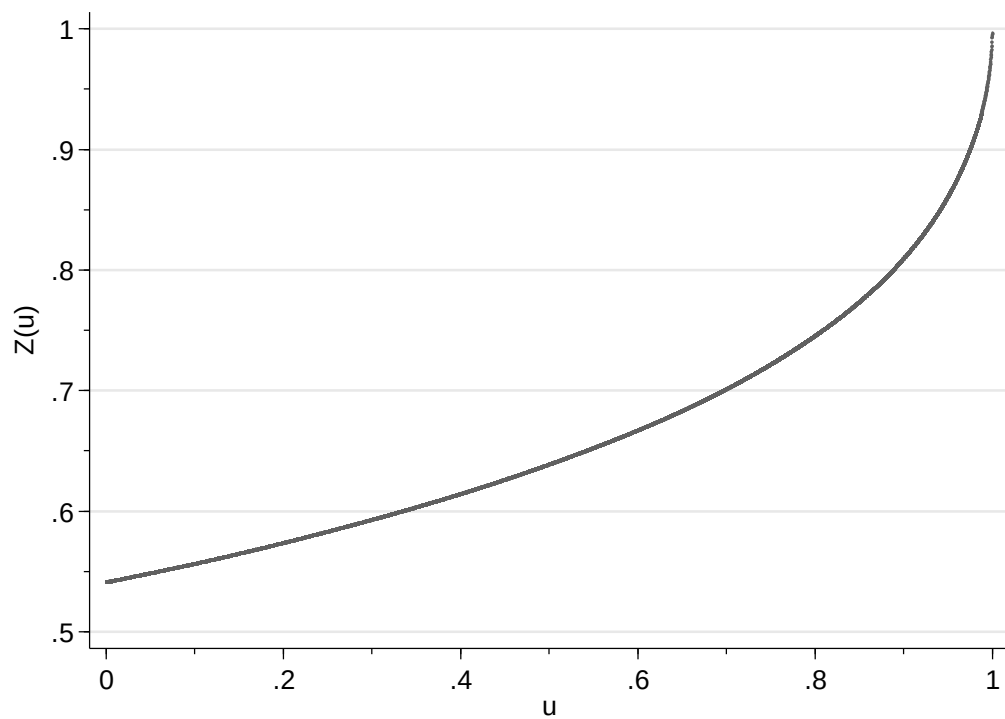


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2005

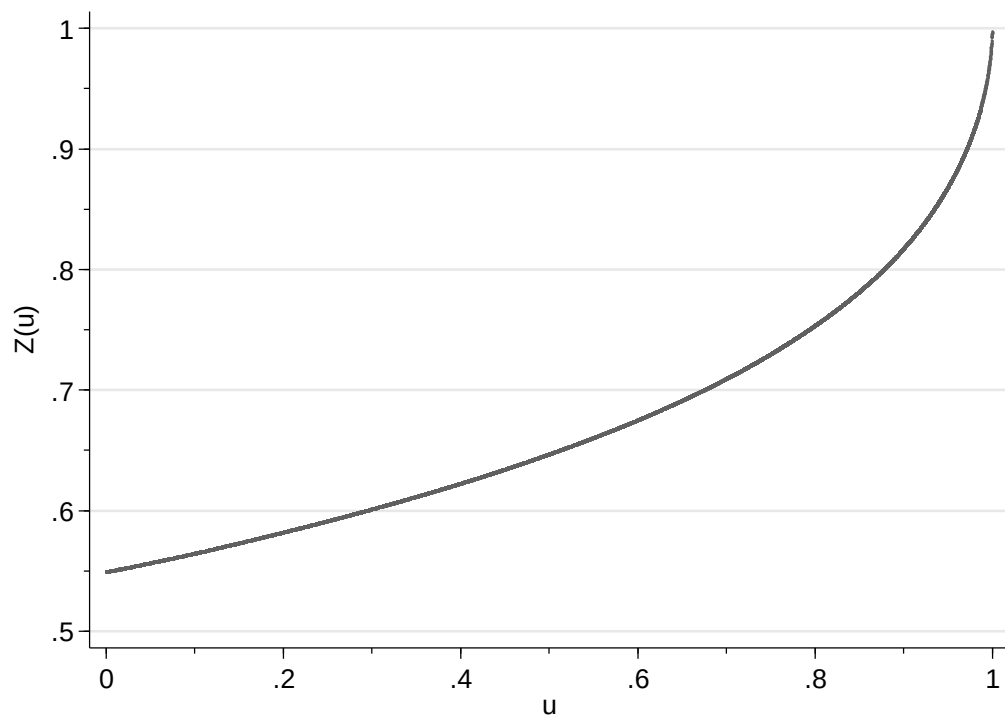


2006

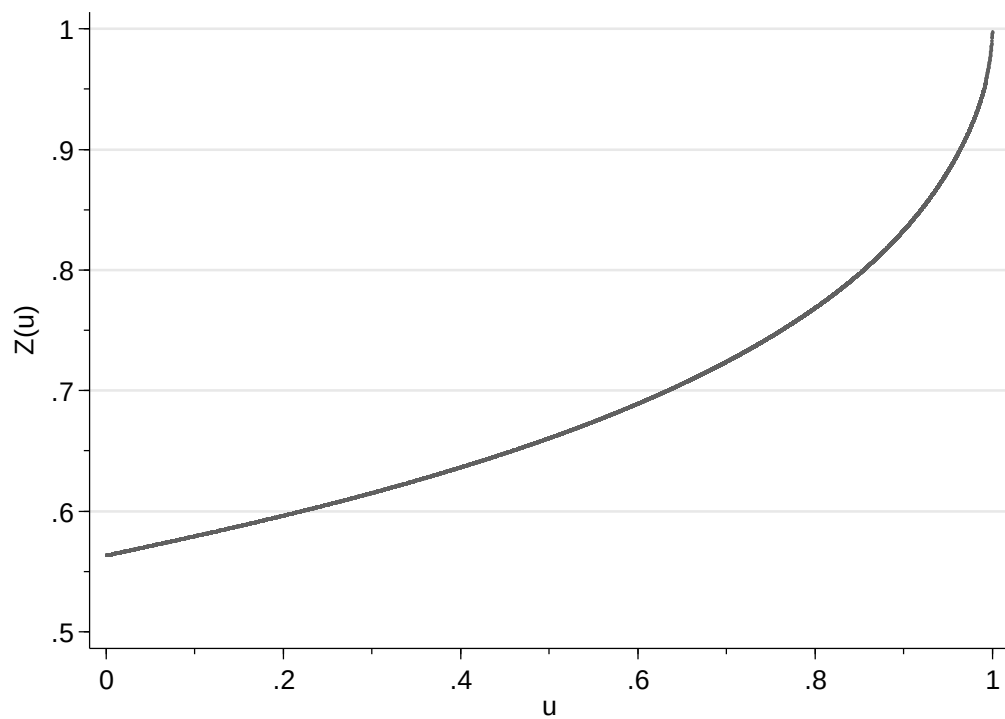


Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

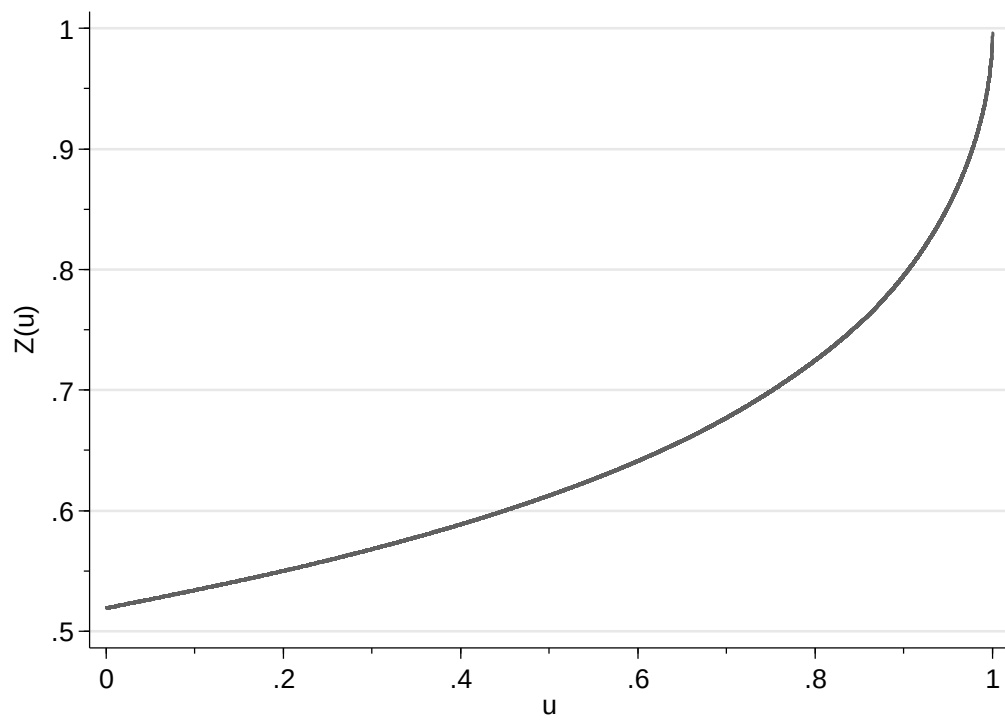
2007



2009

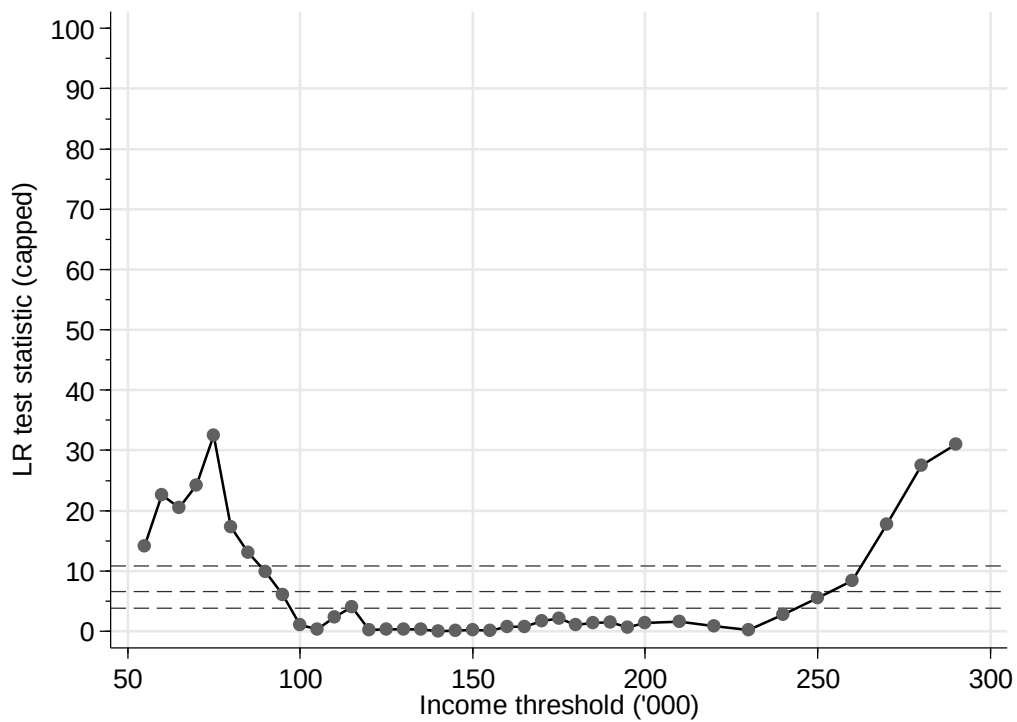


2010

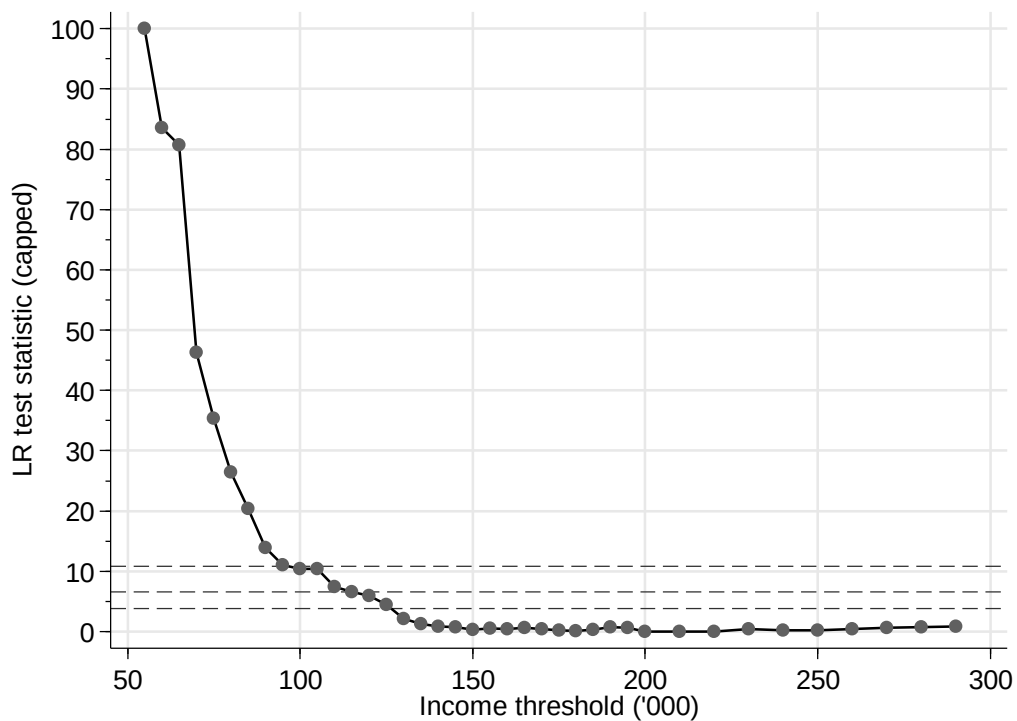


Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

1995

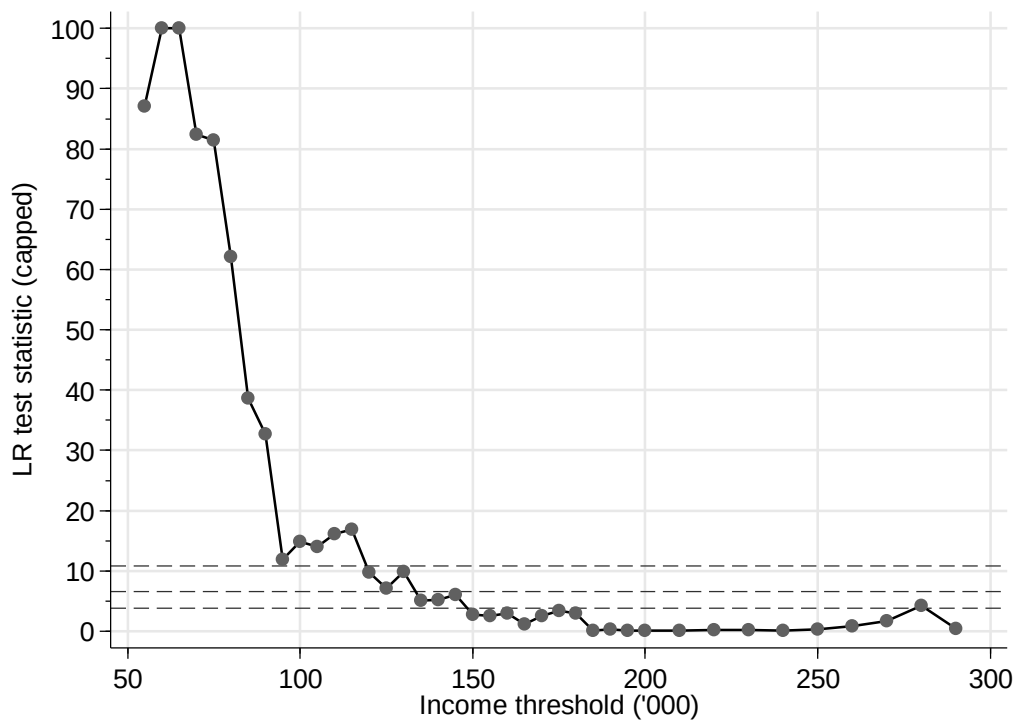


1996

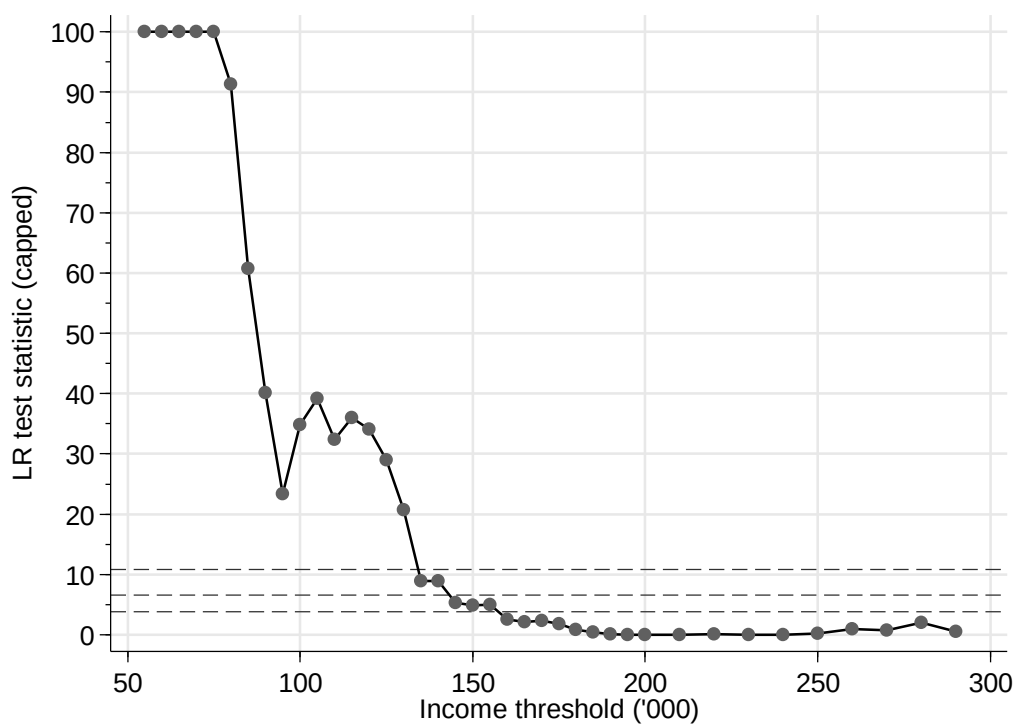


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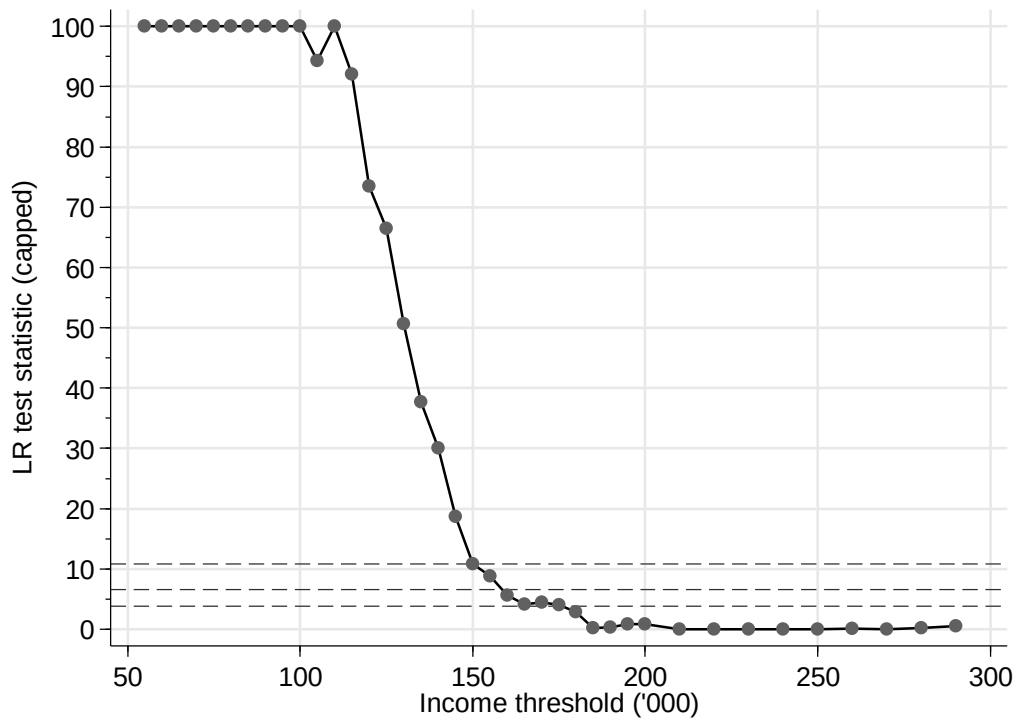


1998

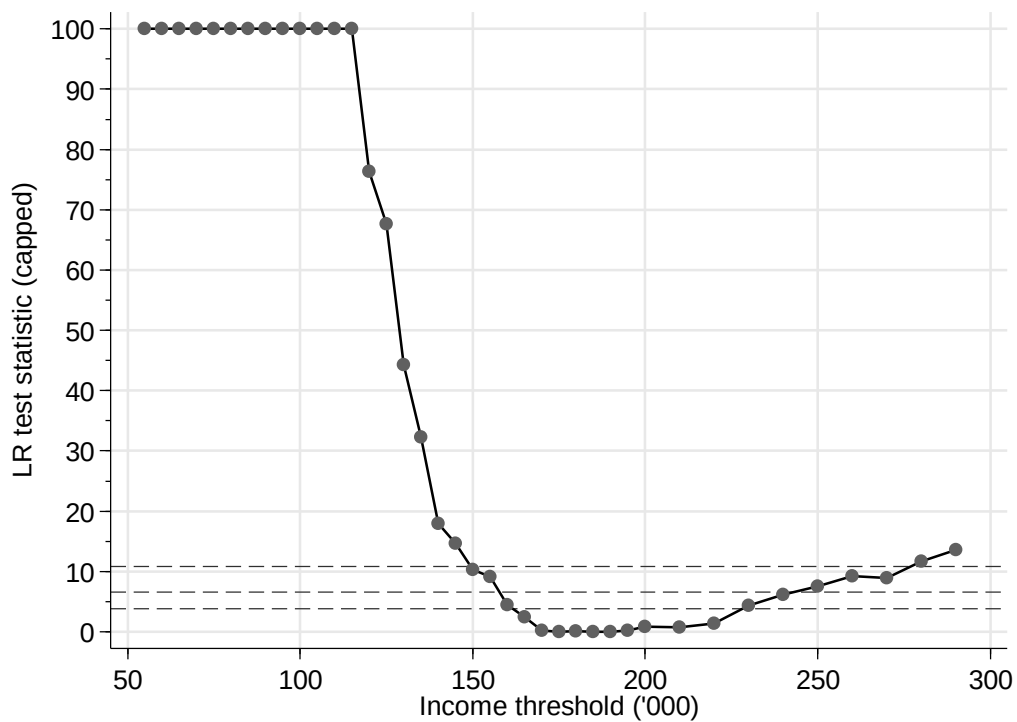


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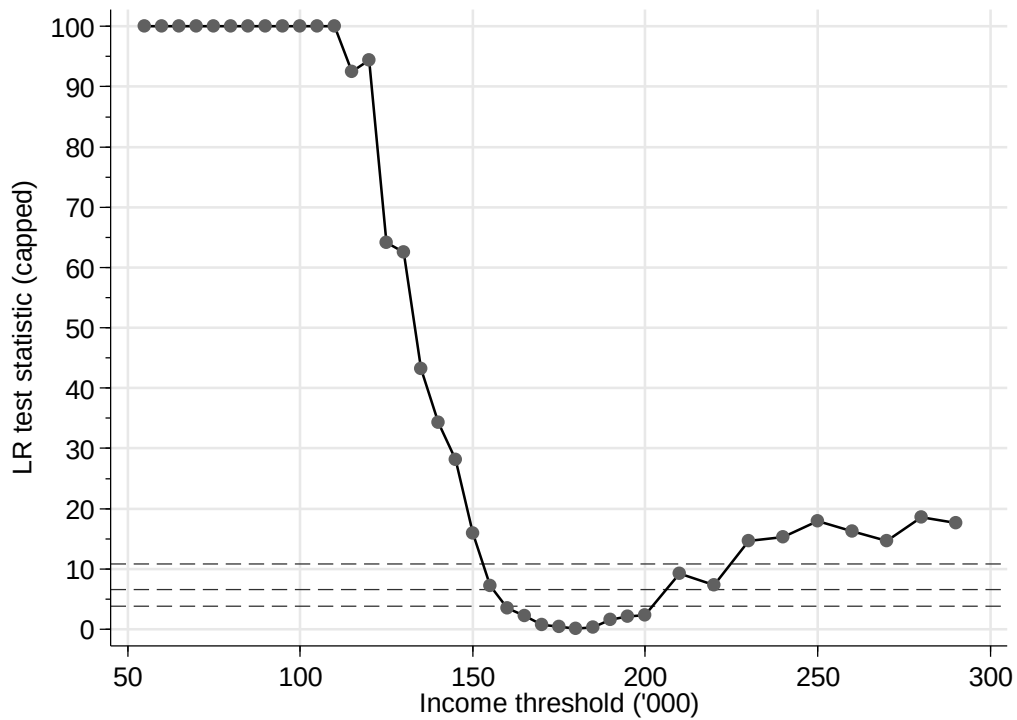


2000

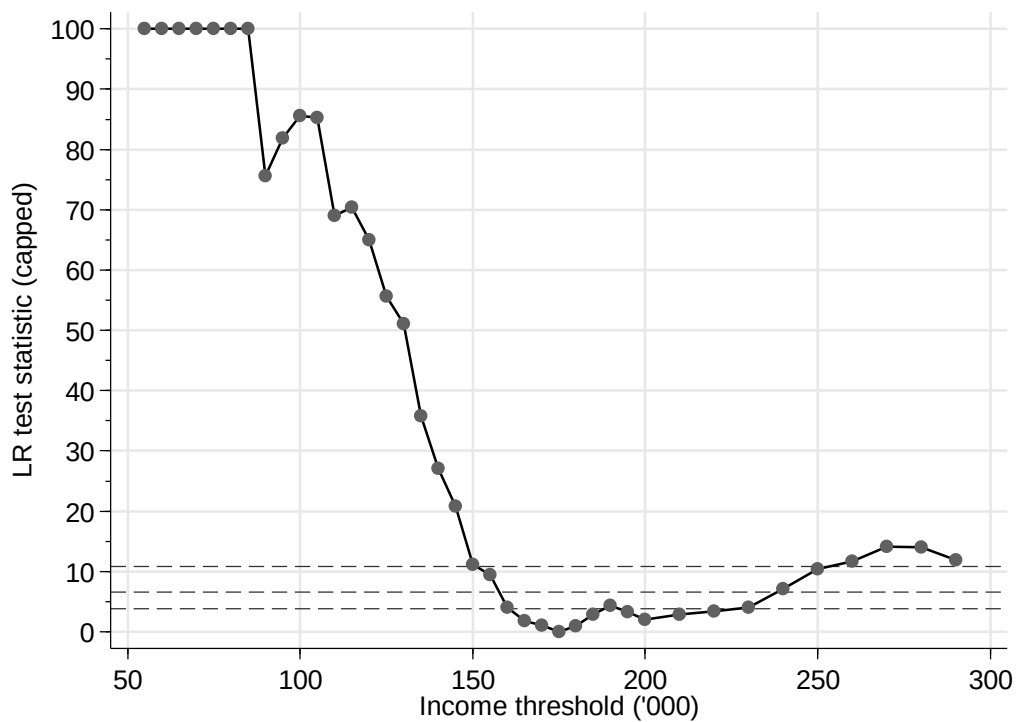


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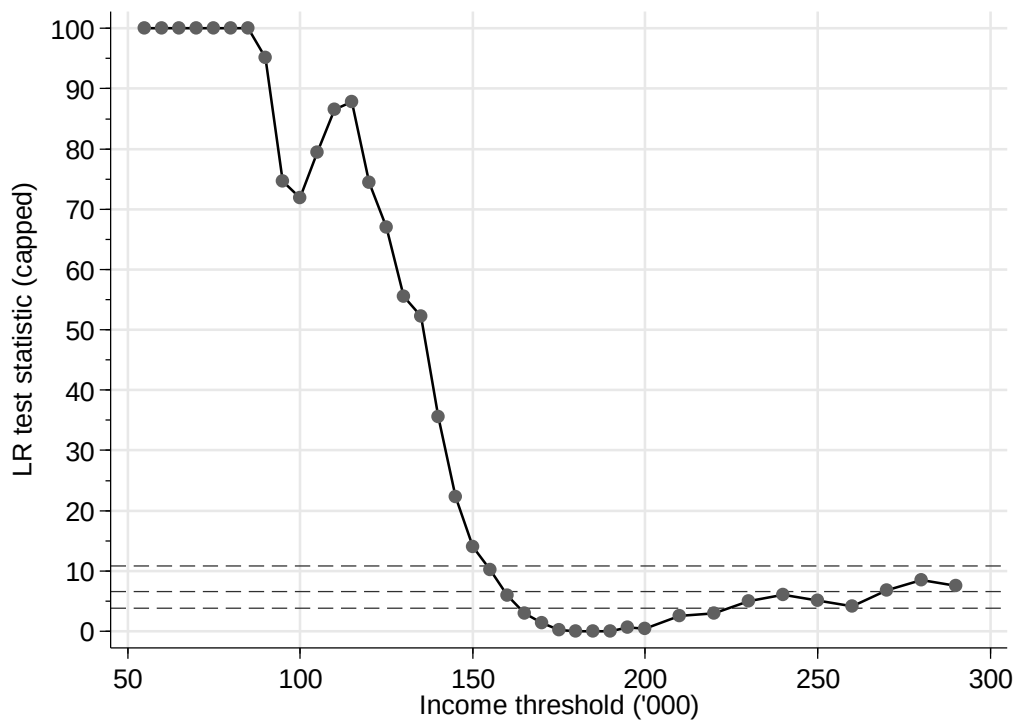


2002

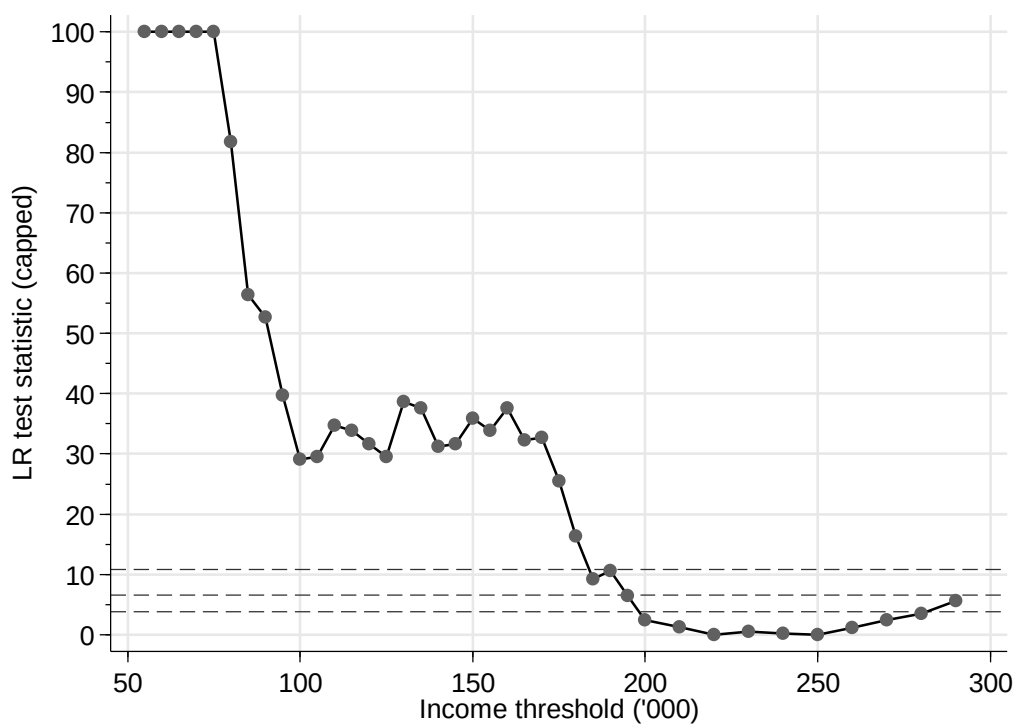


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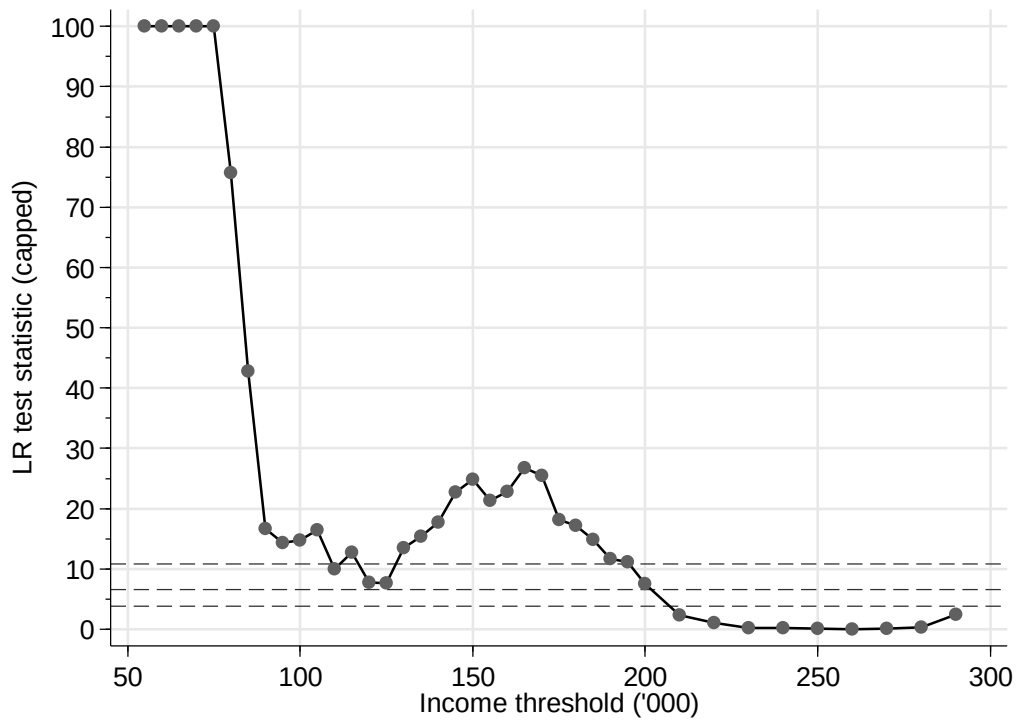


2004

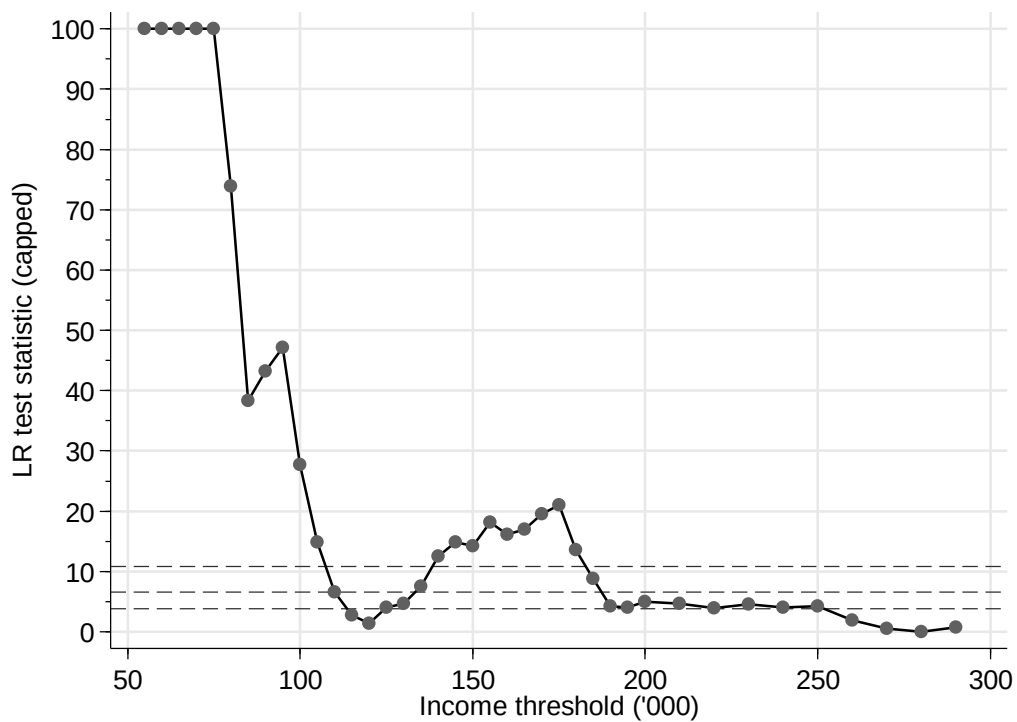


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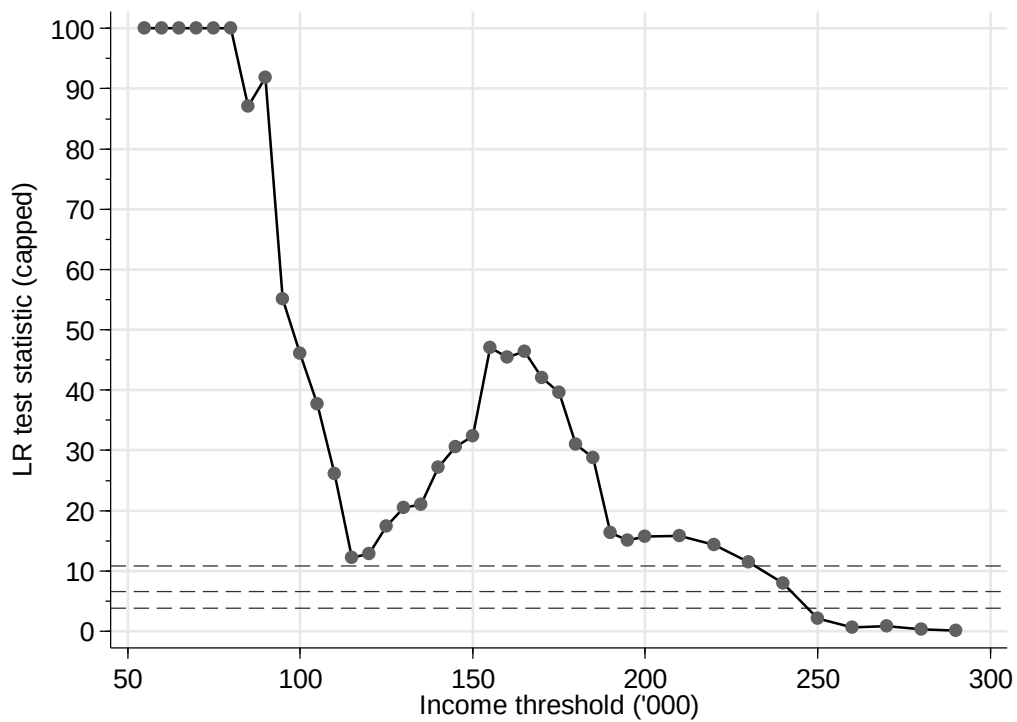


2006

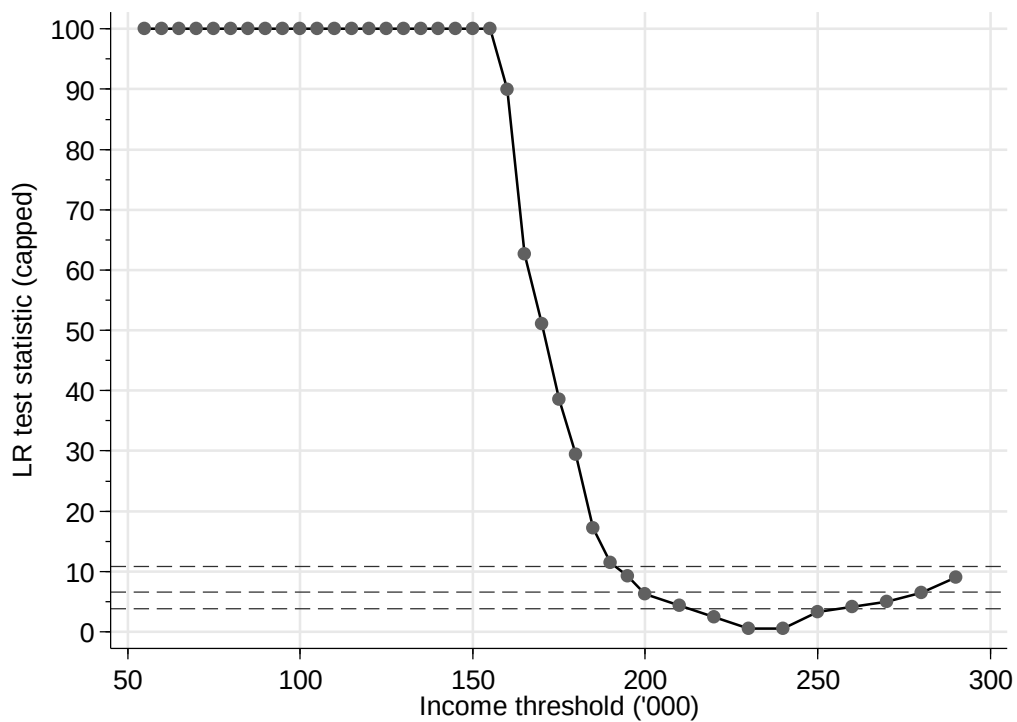


Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2007

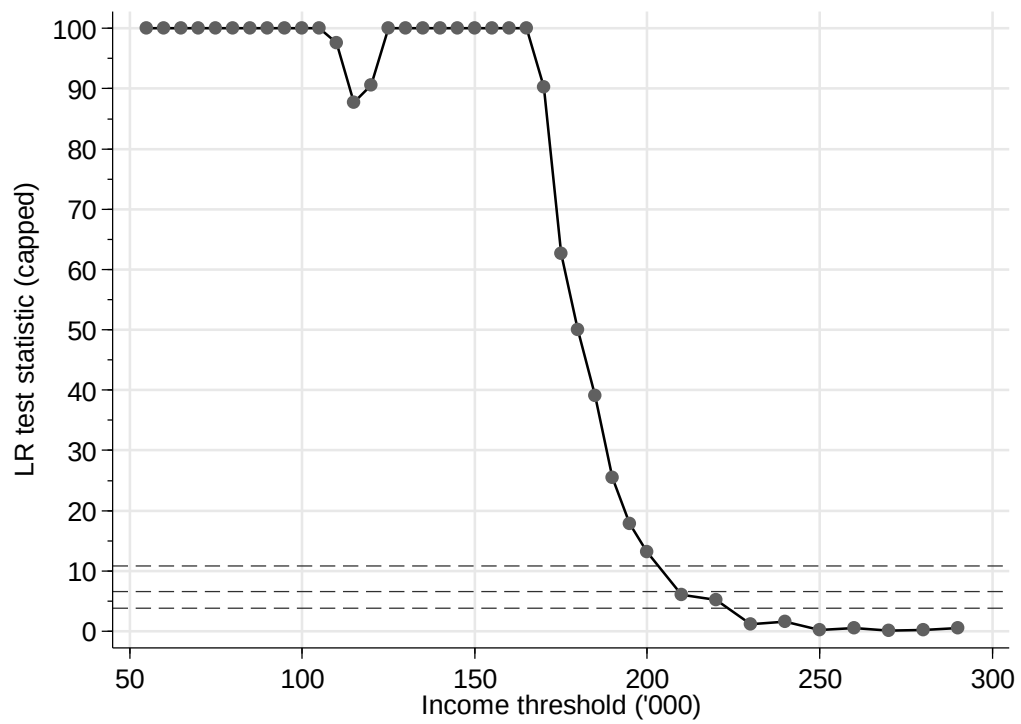


2009



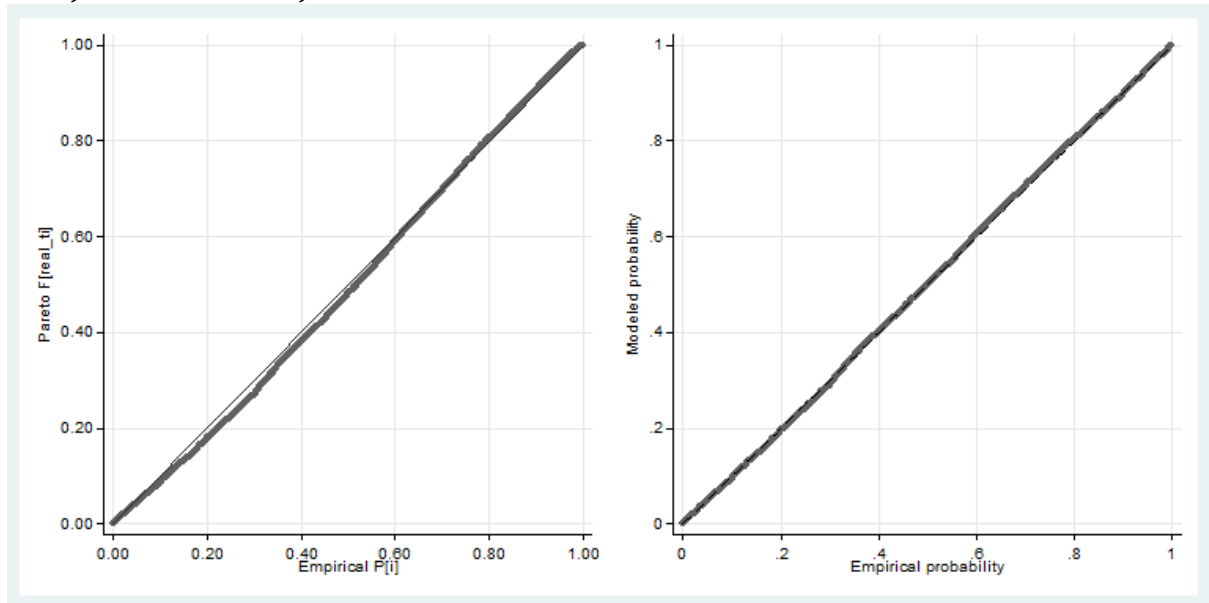
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2010

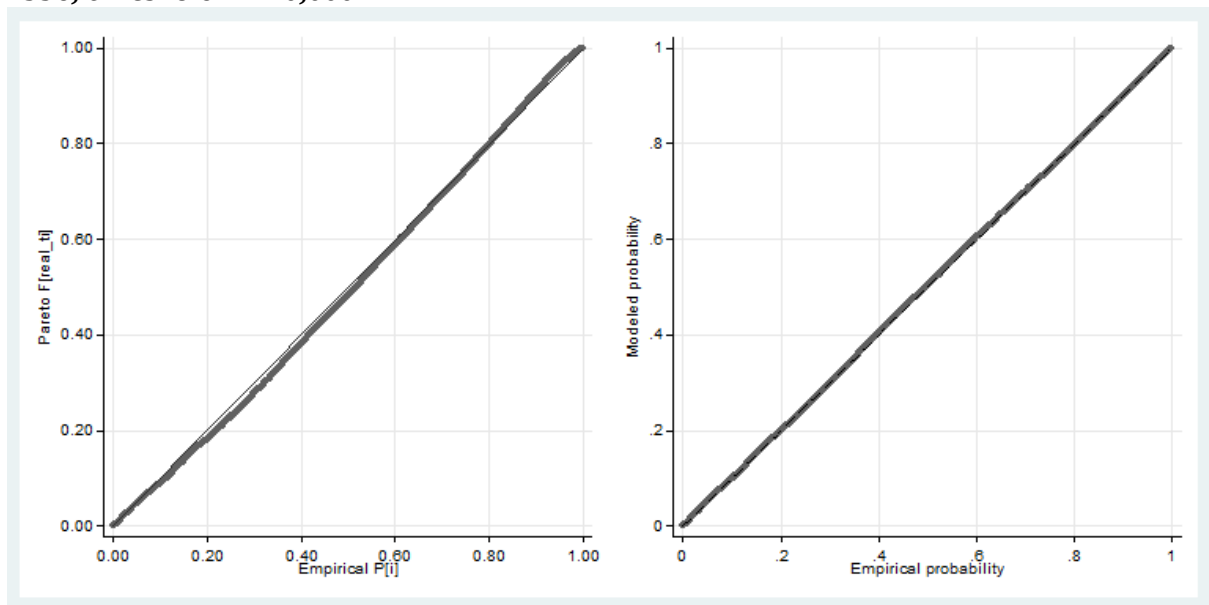


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £40,000

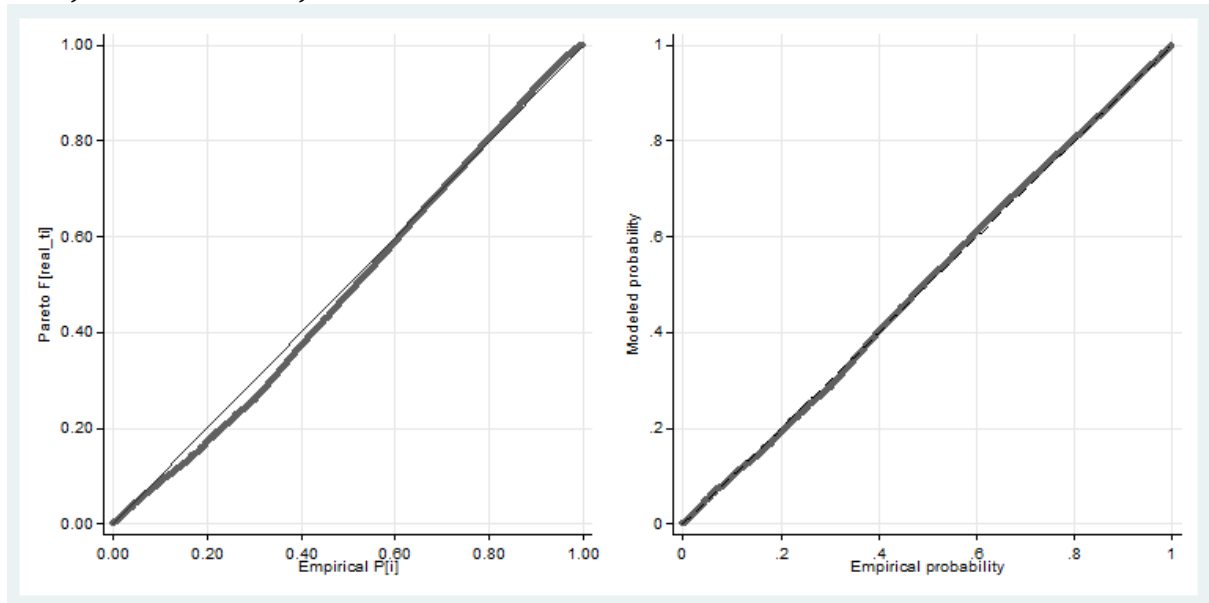


1996, threshold = £40,000

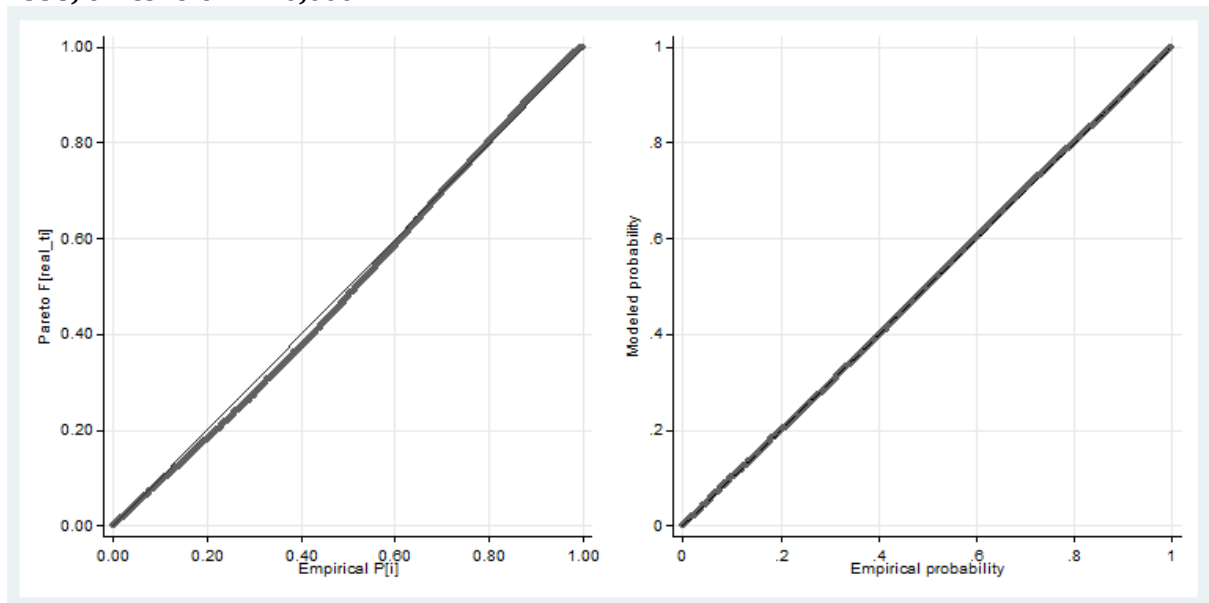


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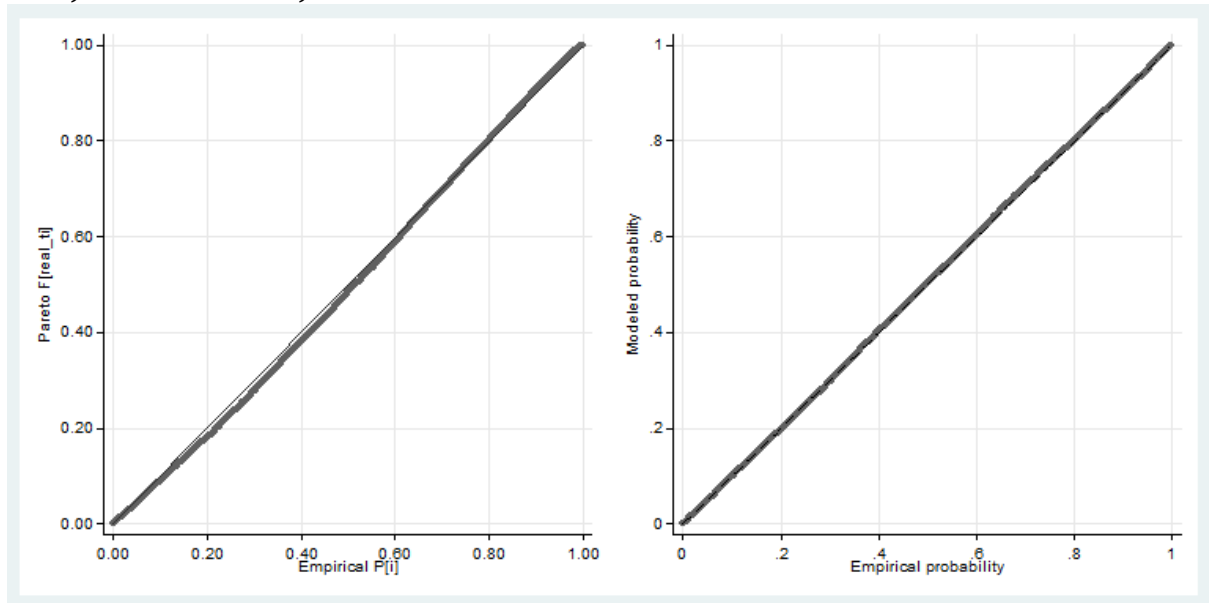


1998, threshold = £40,000

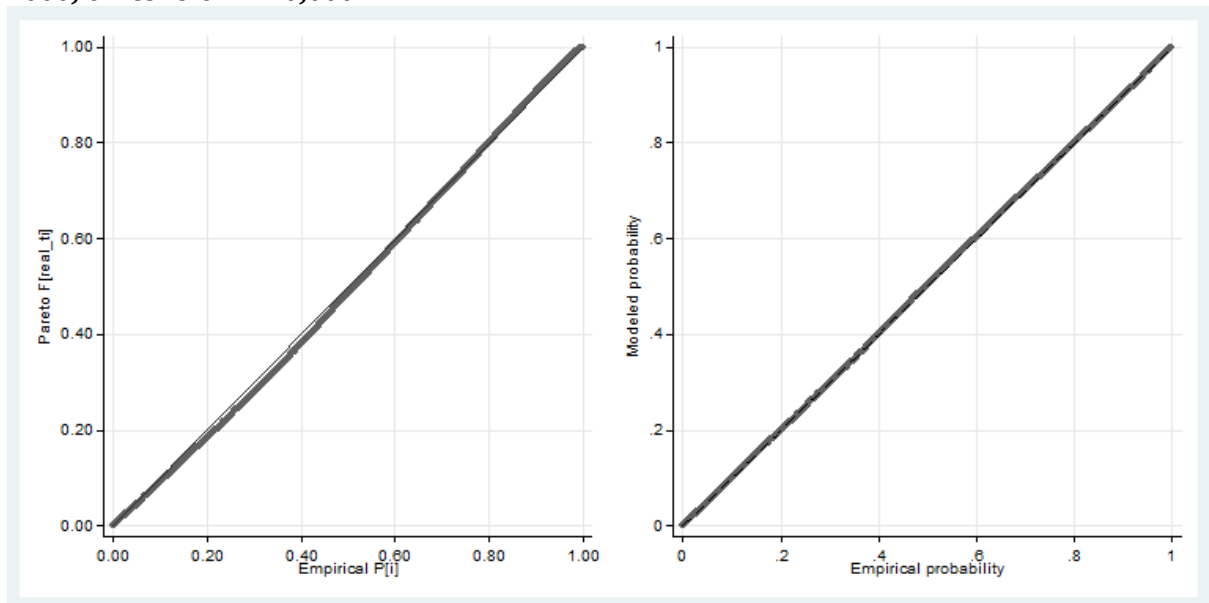


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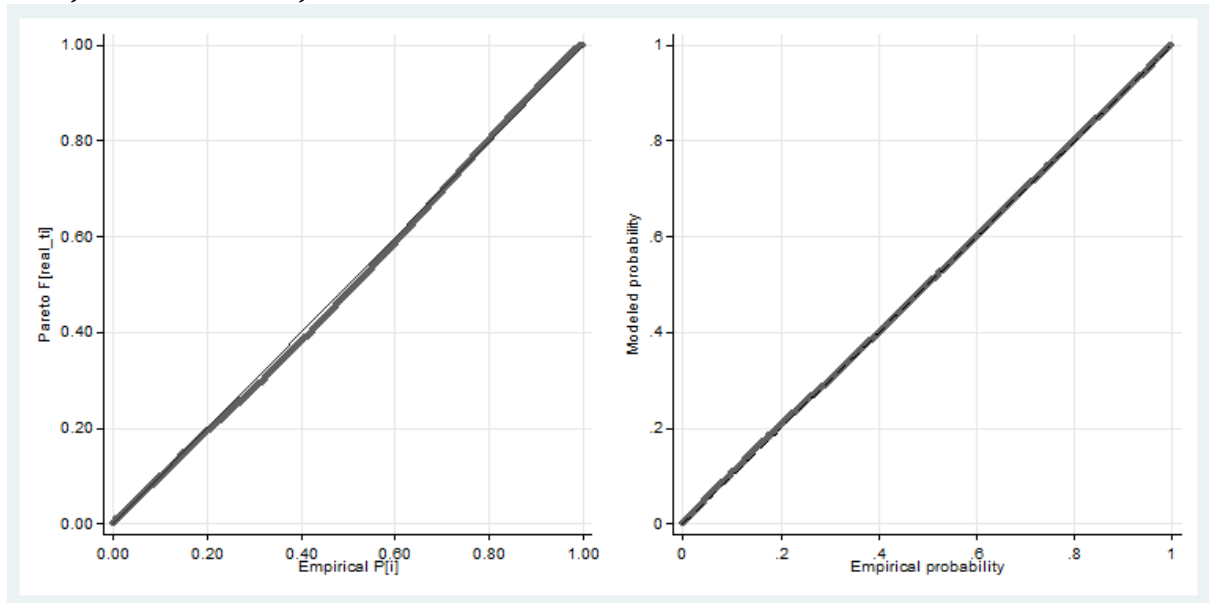


2000, threshold = £40,000

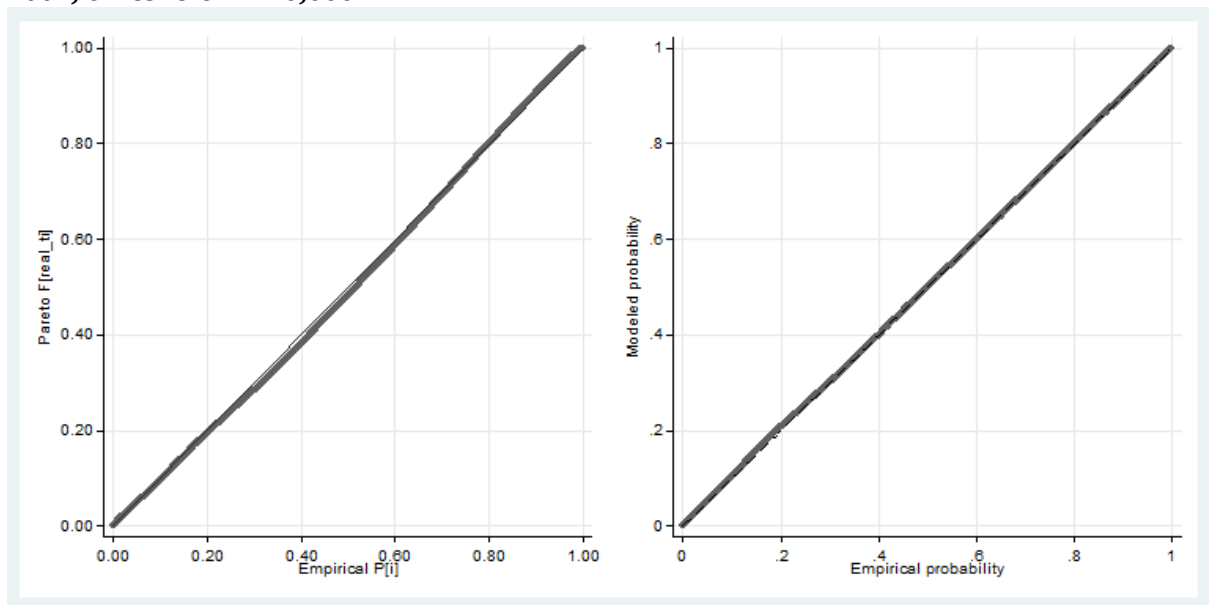


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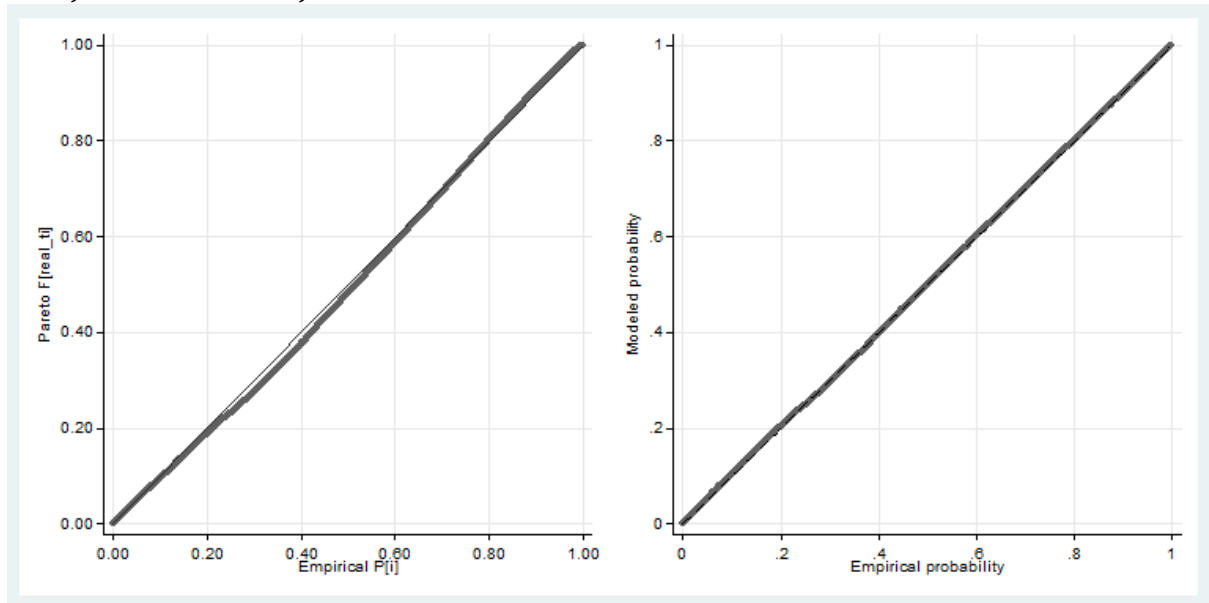


2002, threshold = £40,000

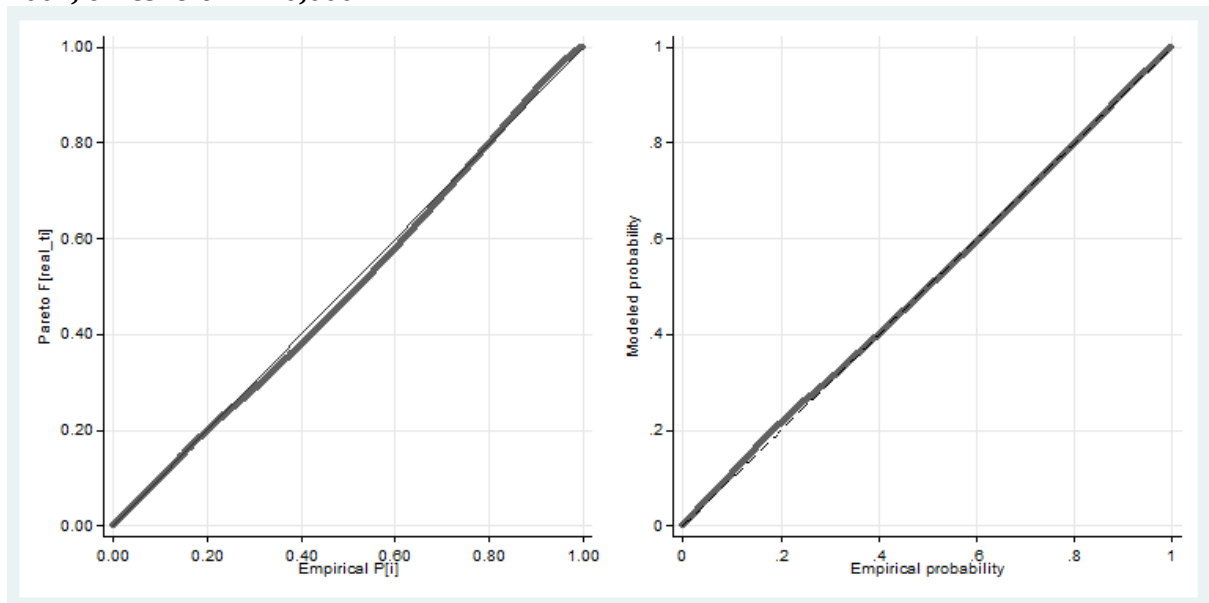


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £40,000

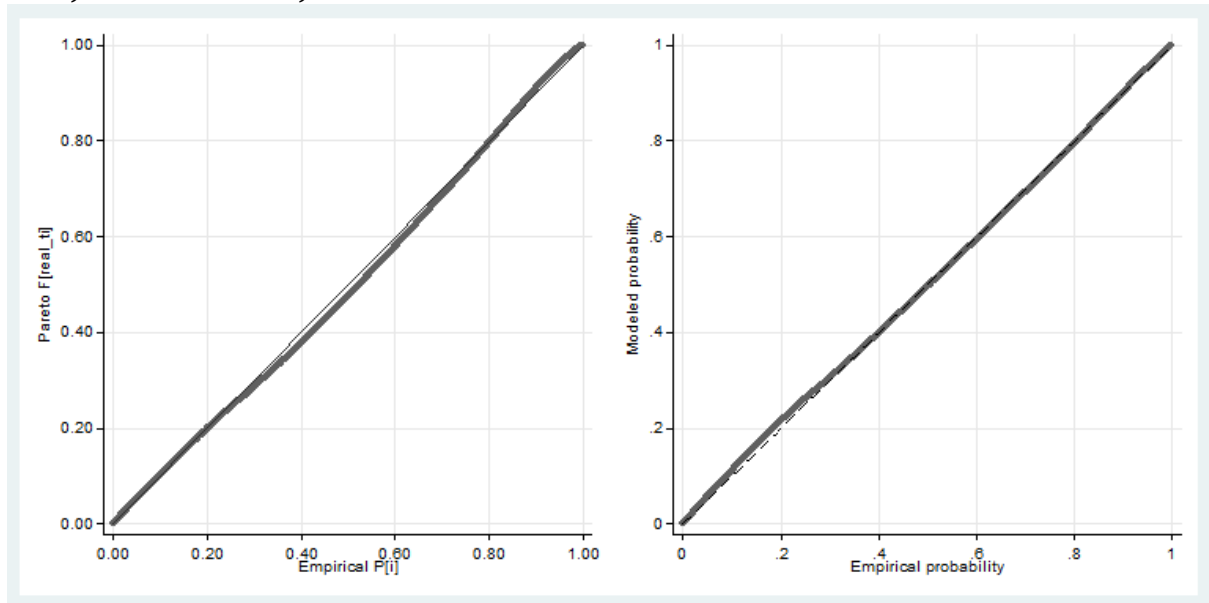


2004, threshold = £40,000

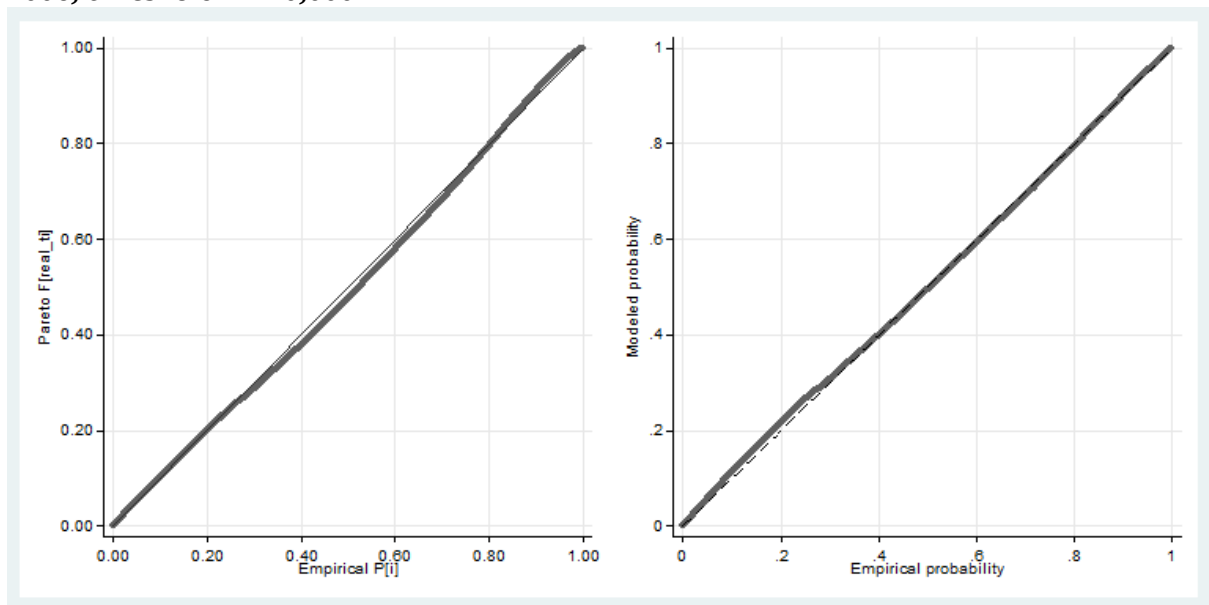


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2005, threshold = £40,000

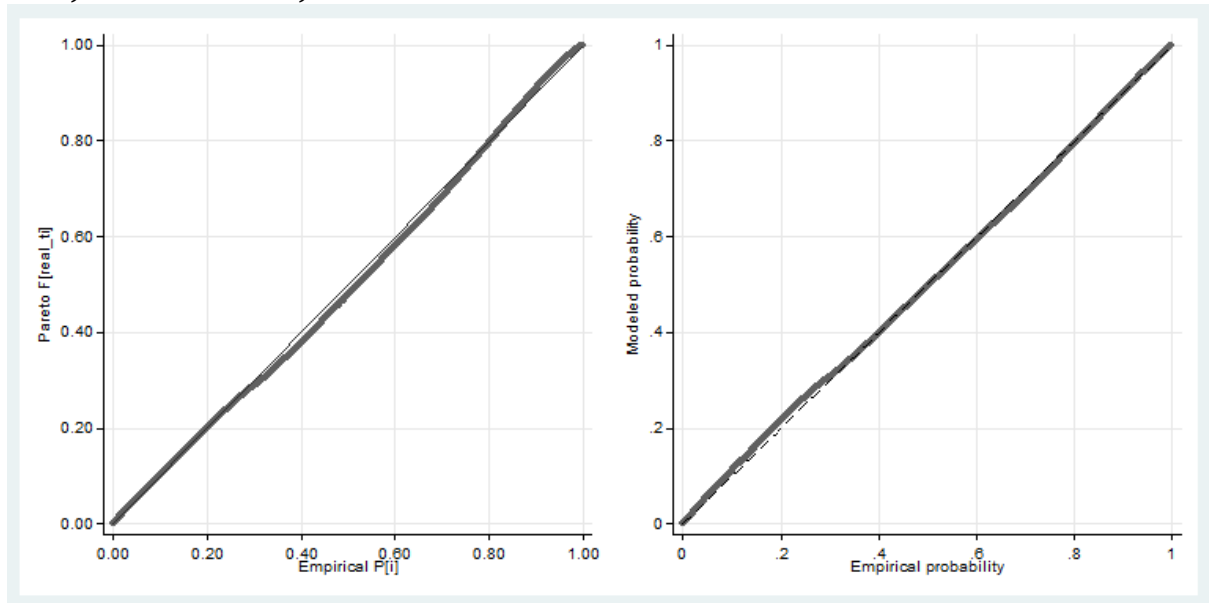


2006, threshold = £40,000

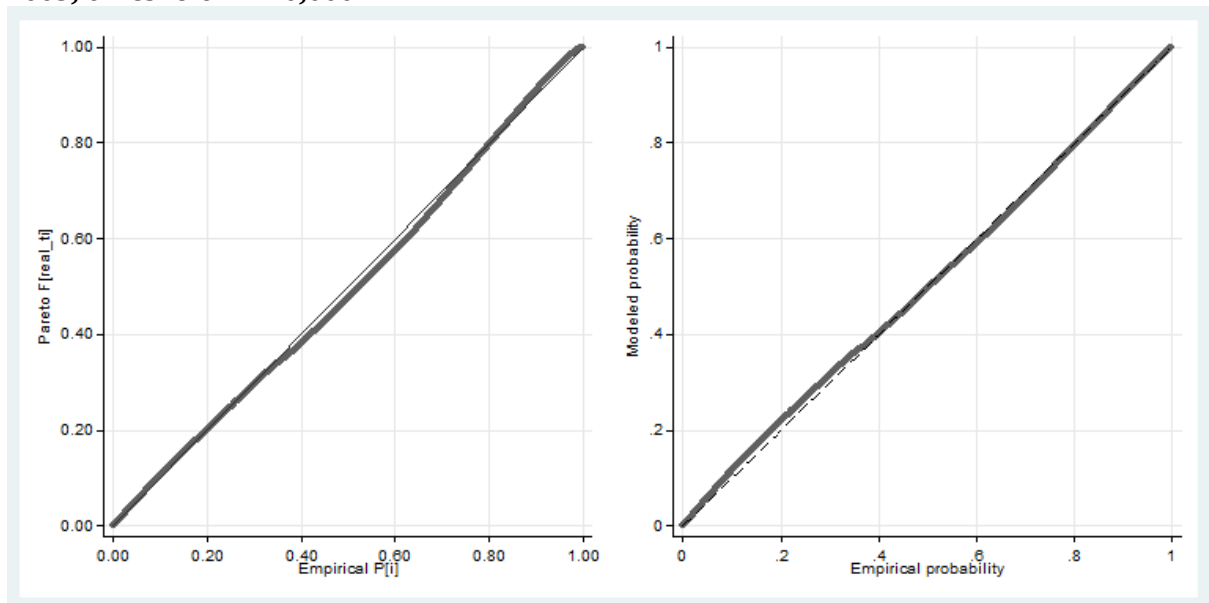


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £40,000

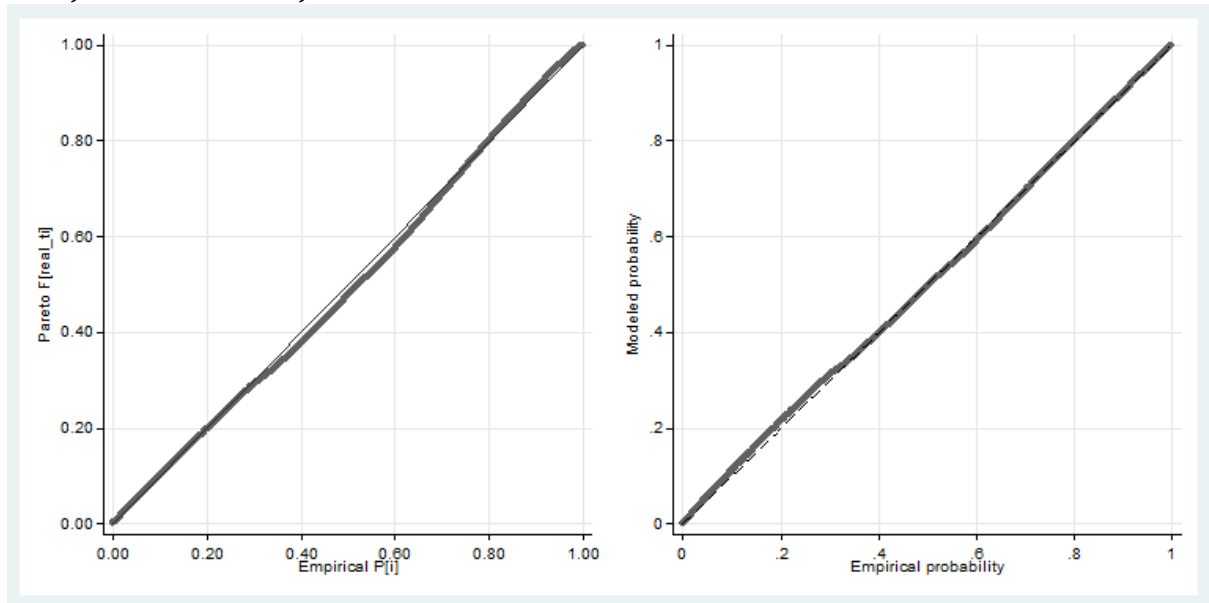


2009, threshold = £40,000



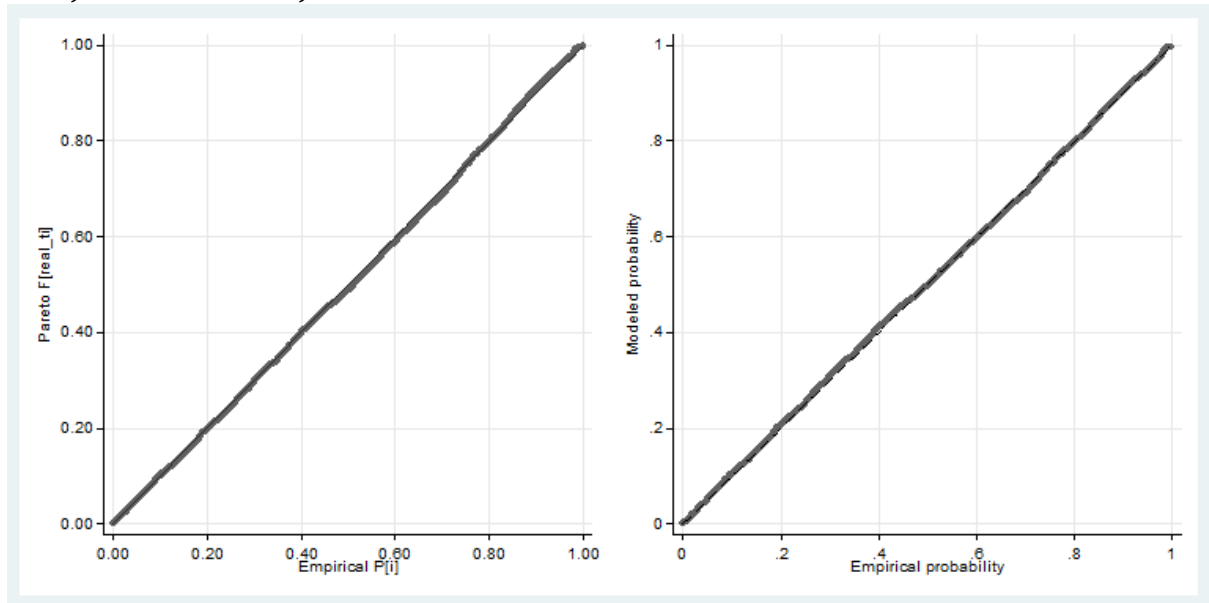
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £40,000

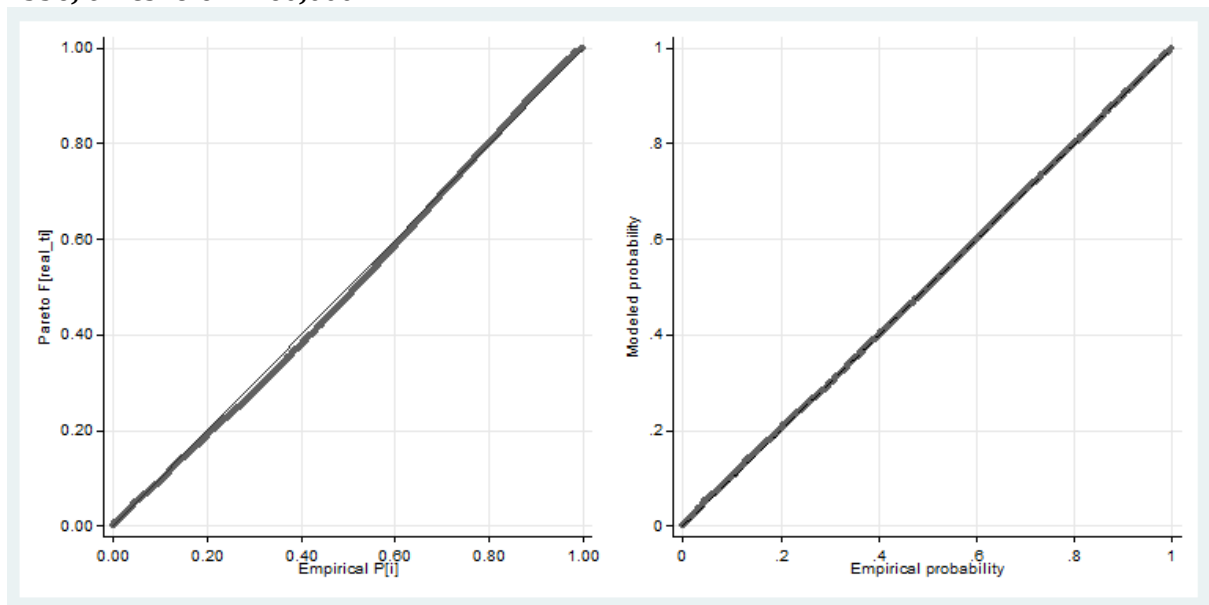


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £60,000

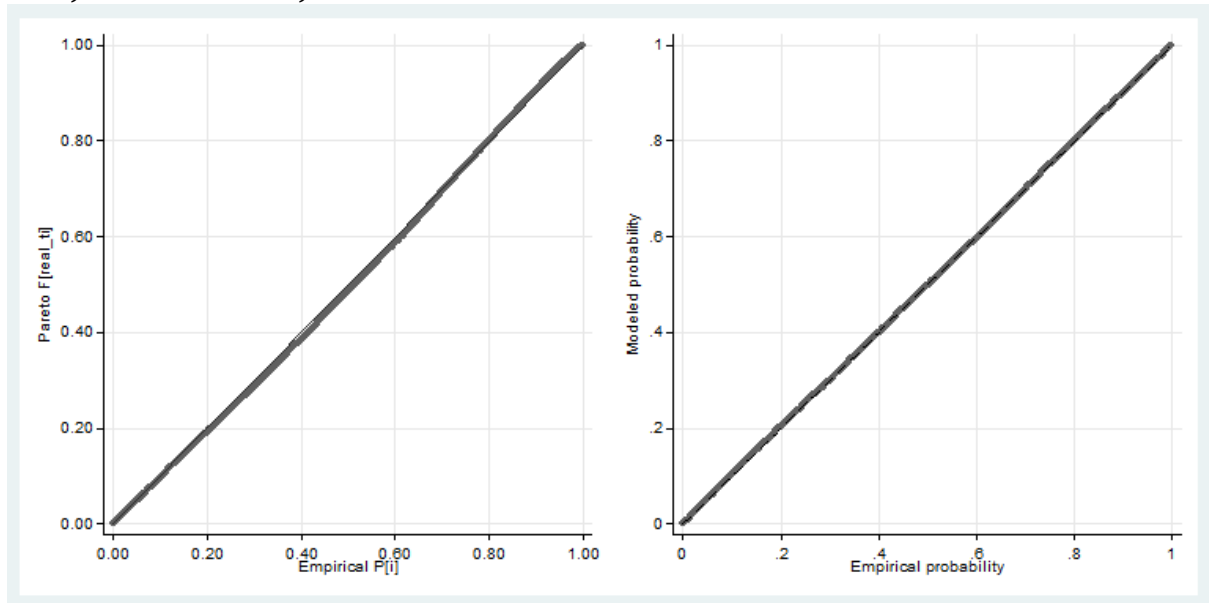


1996, threshold = £60,000

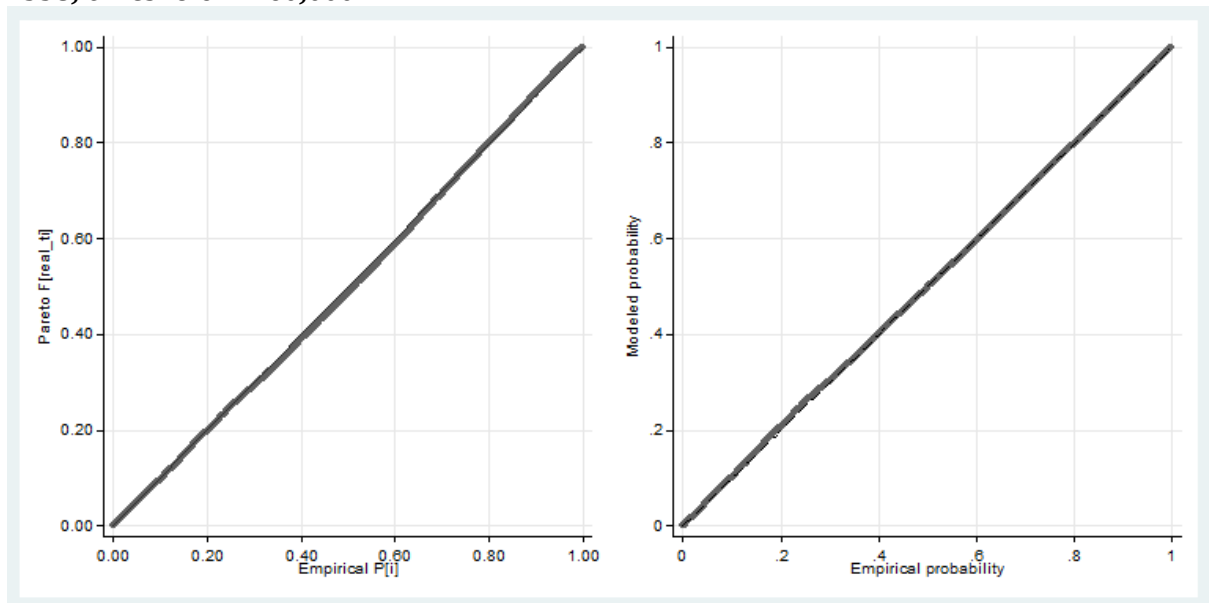


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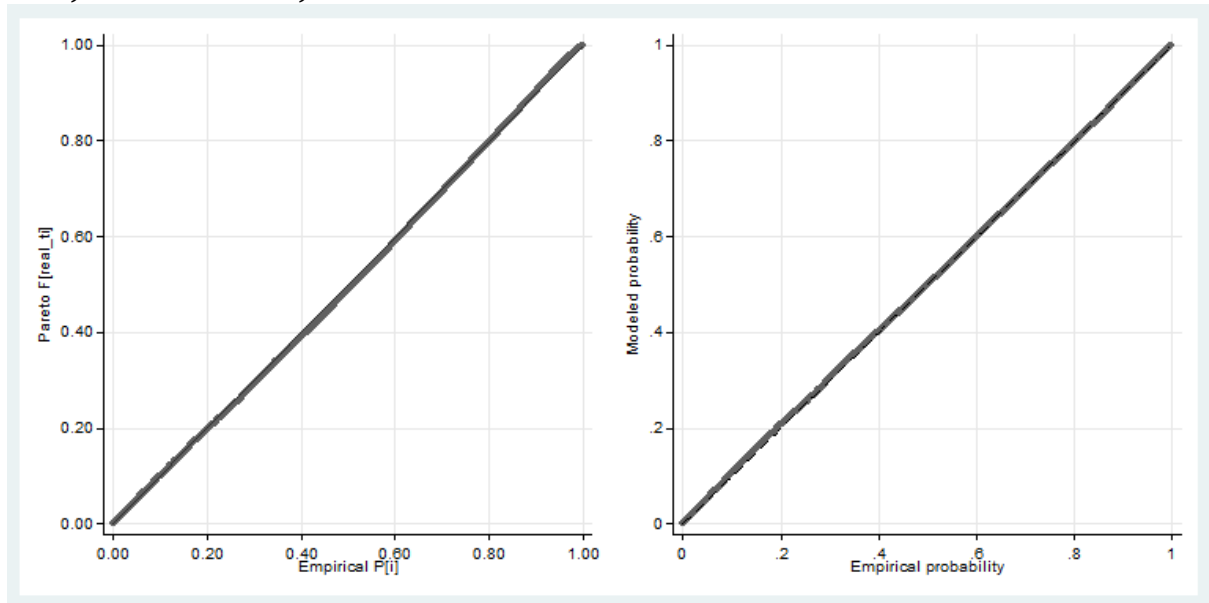


1998, threshold = £60,000

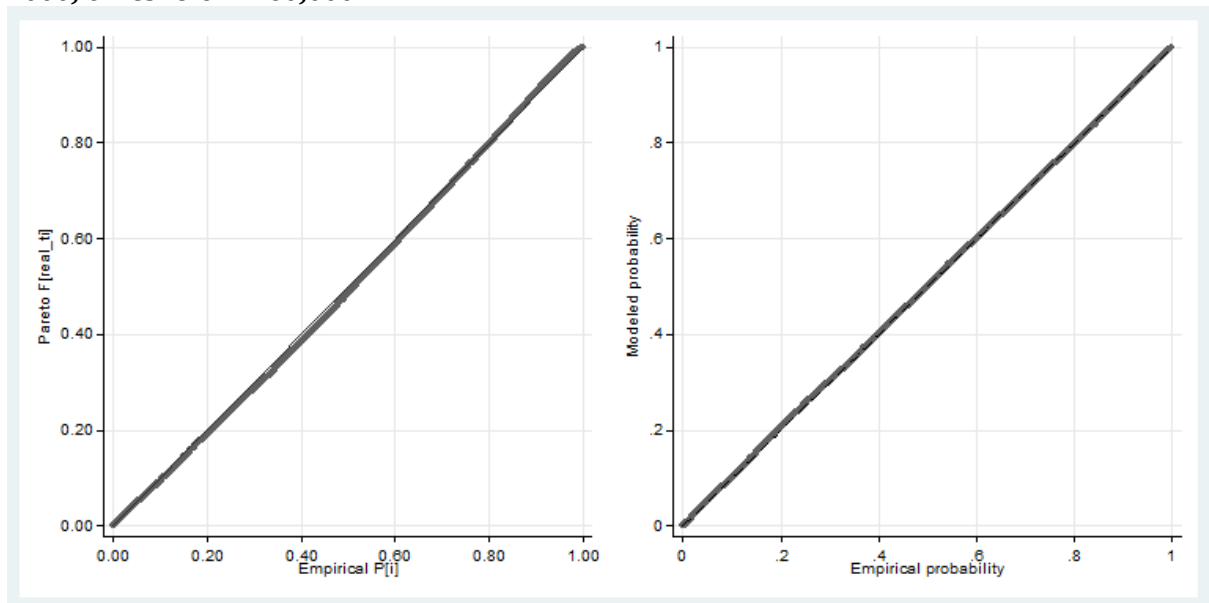


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1999, threshold = £60,000

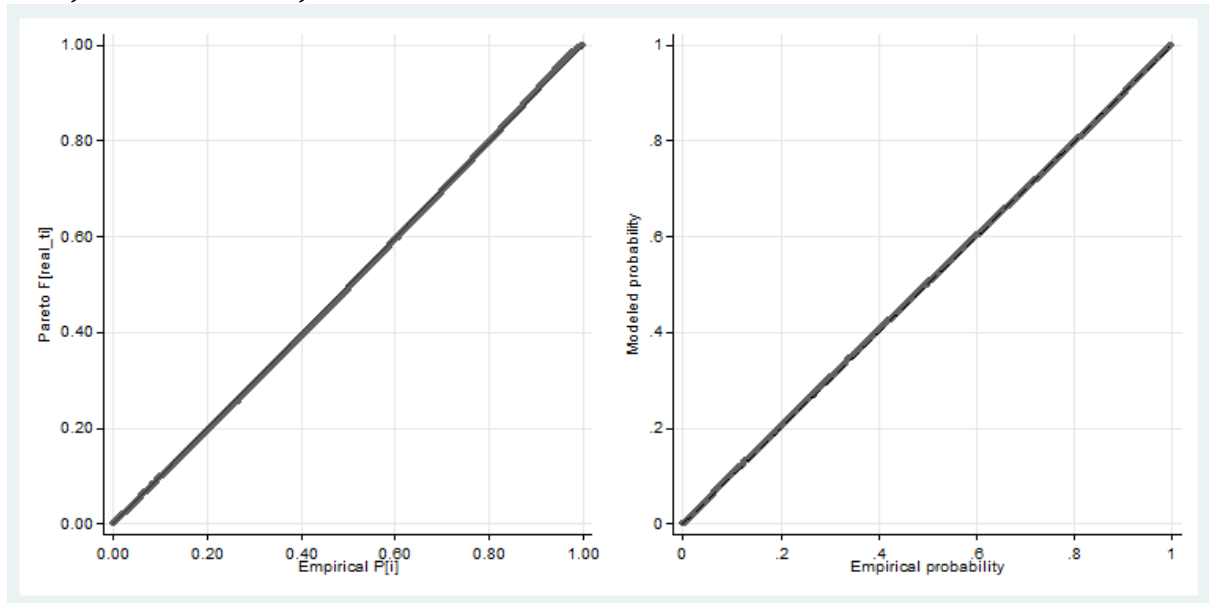


2000, threshold = £60,000

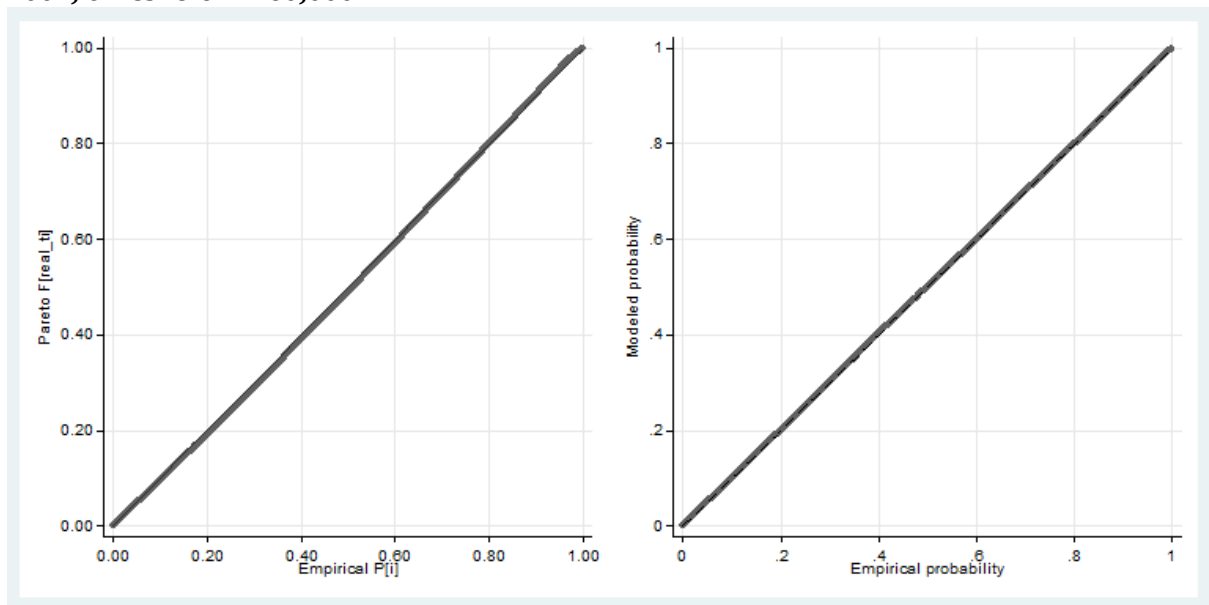


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £60,000

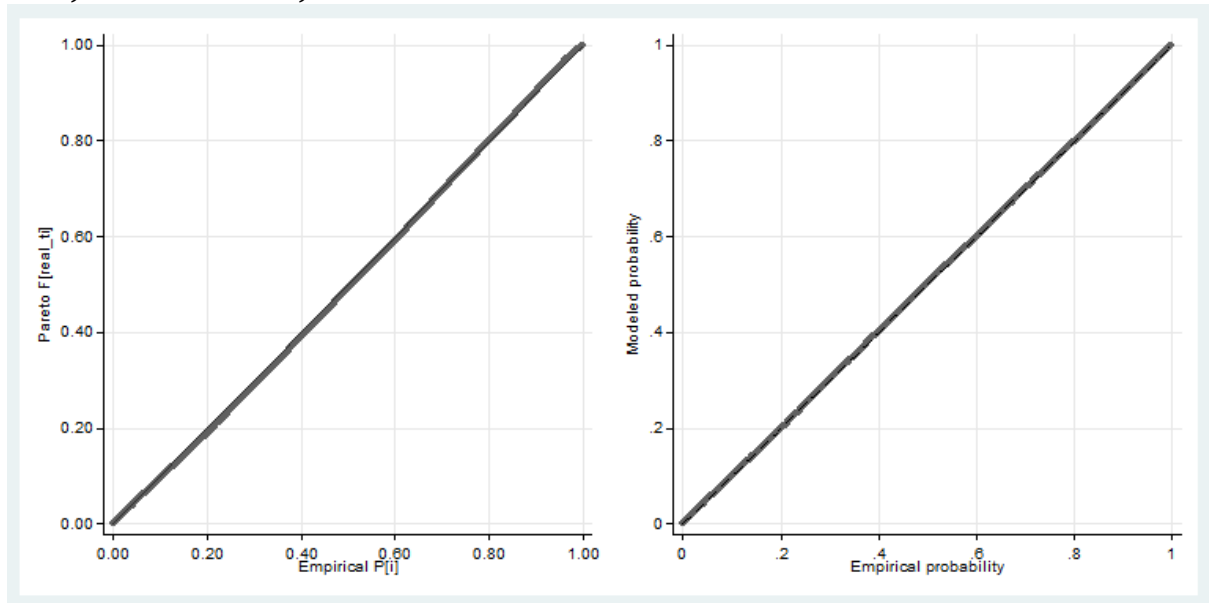


2002, threshold = £60,000

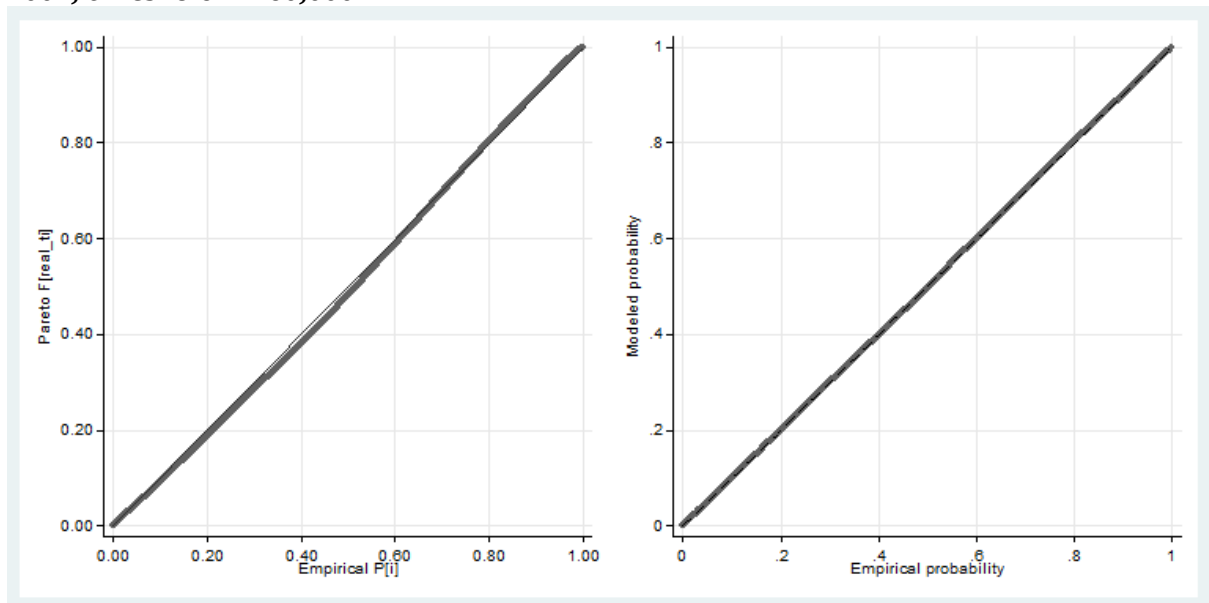


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £60,000

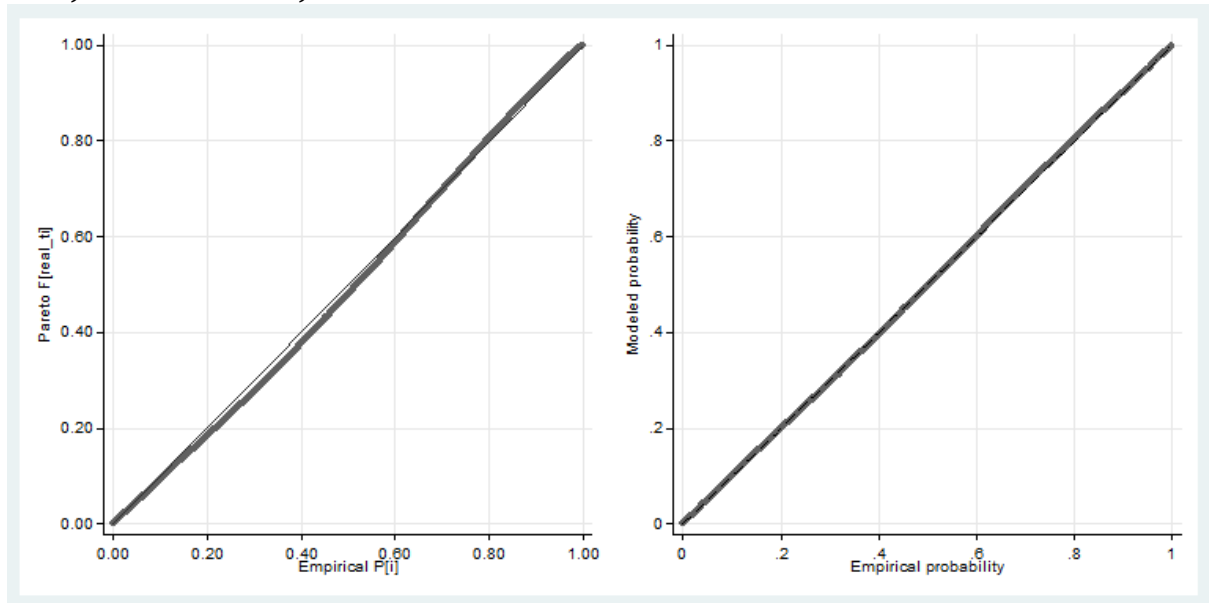


2004, threshold = £60,000

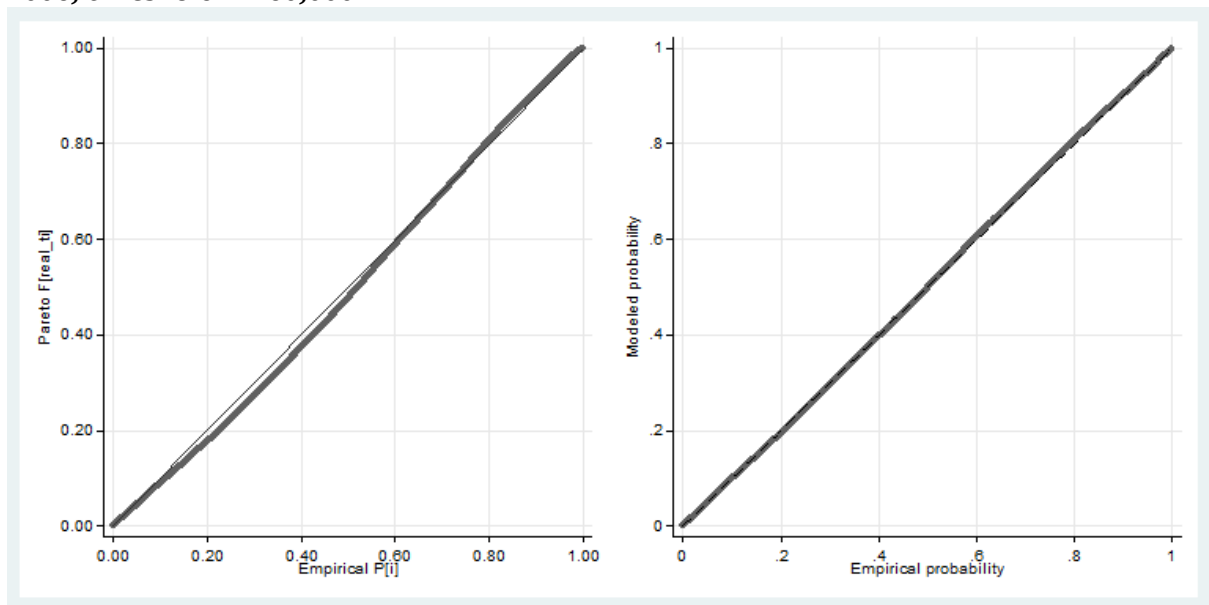


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £60,000

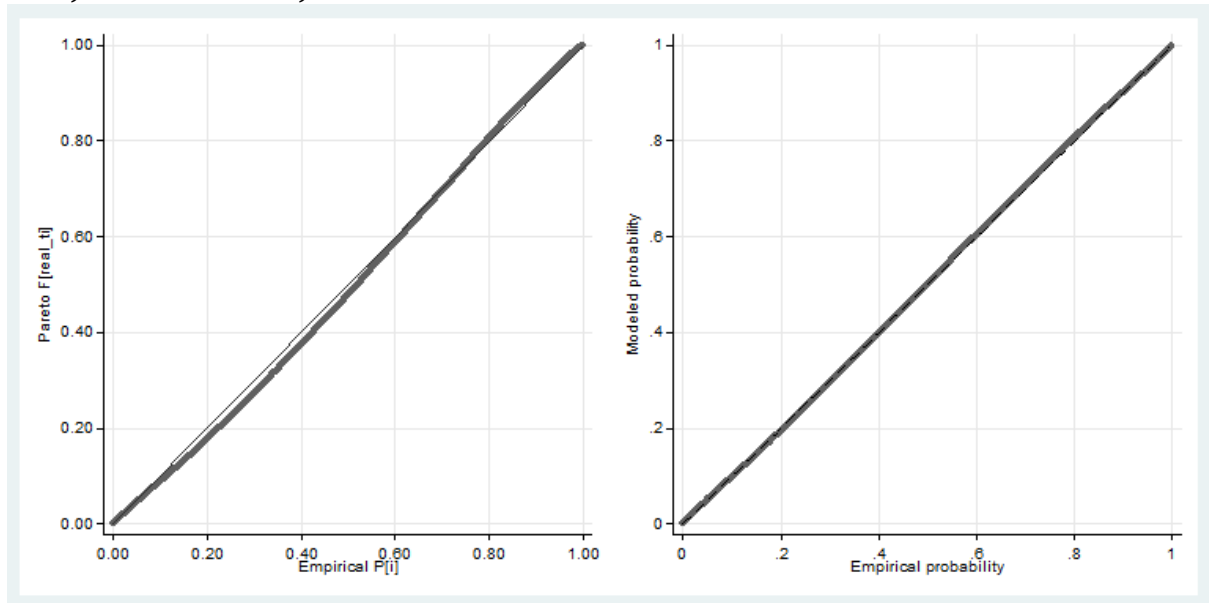


2006, threshold = £60,000

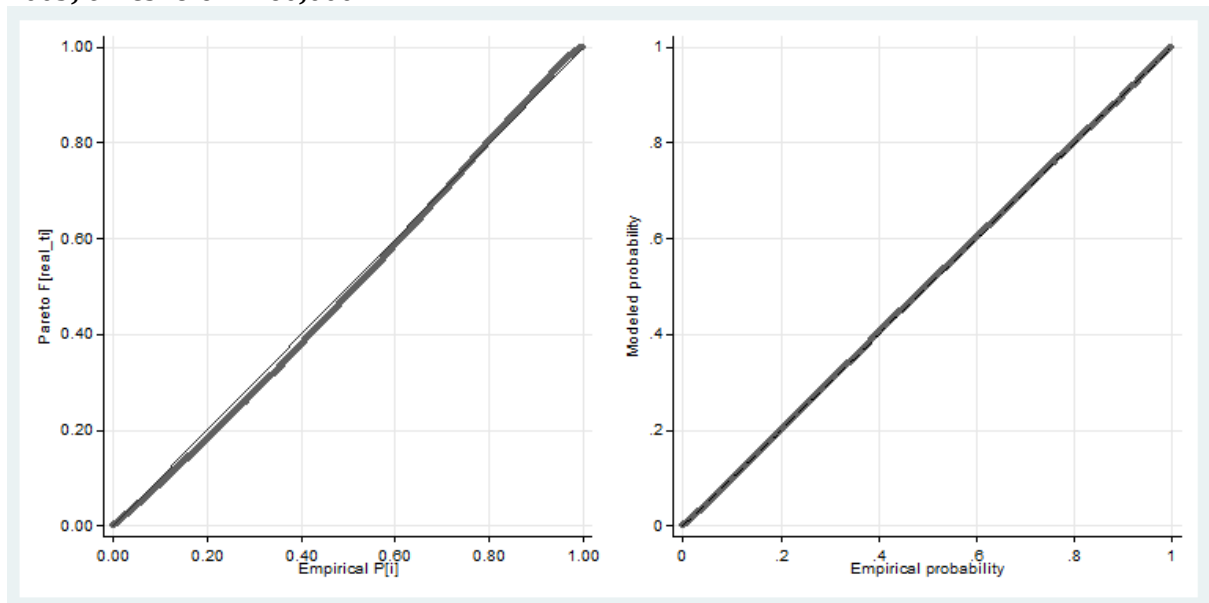


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £60,000

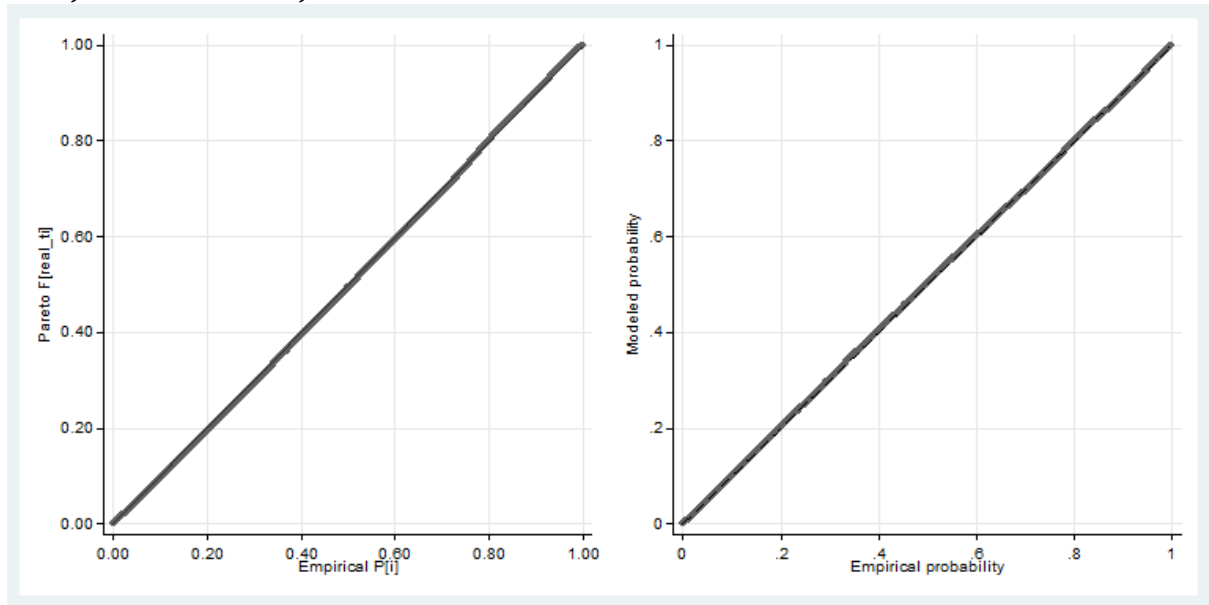


2009, threshold = £60,000



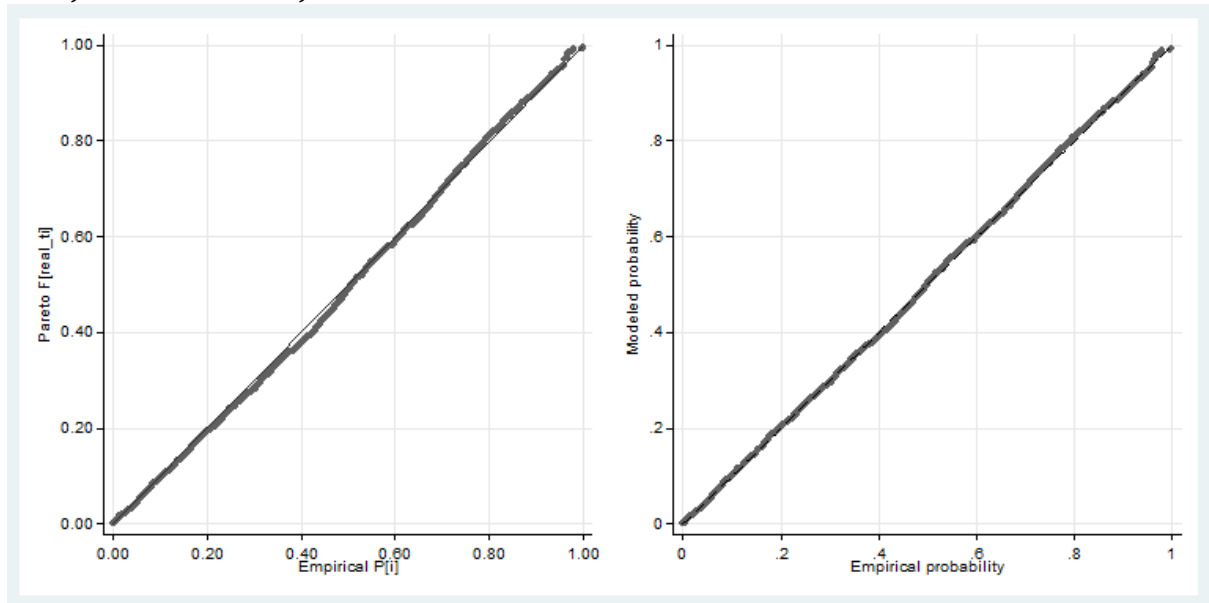
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £60,000

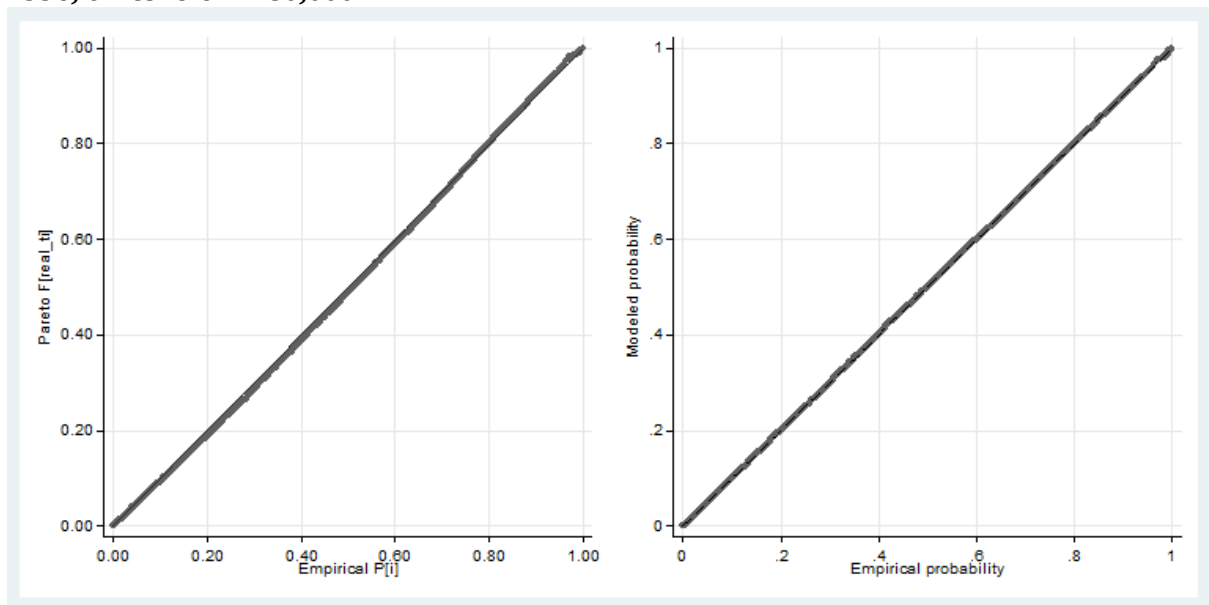


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £80,000

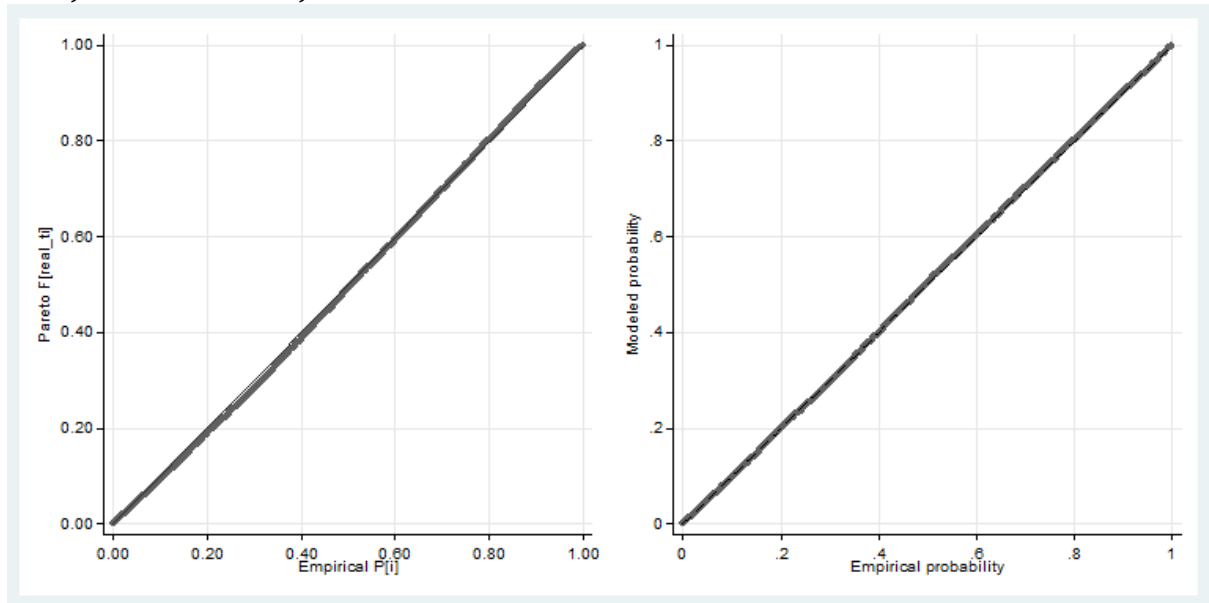


1996, threshold = £80,000

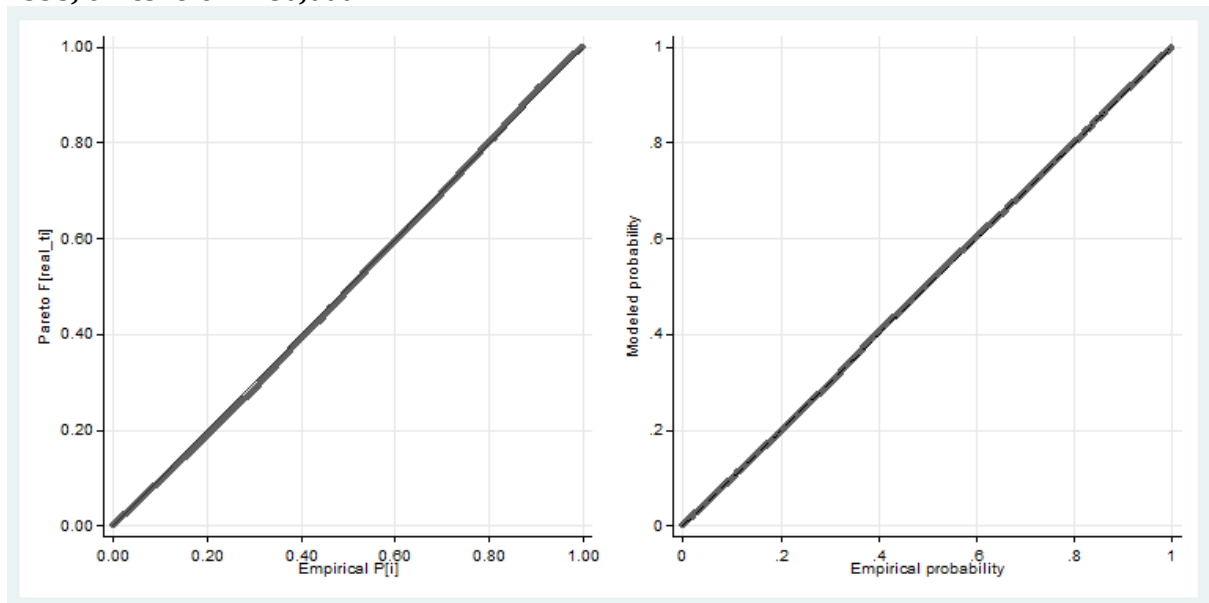


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £80,000

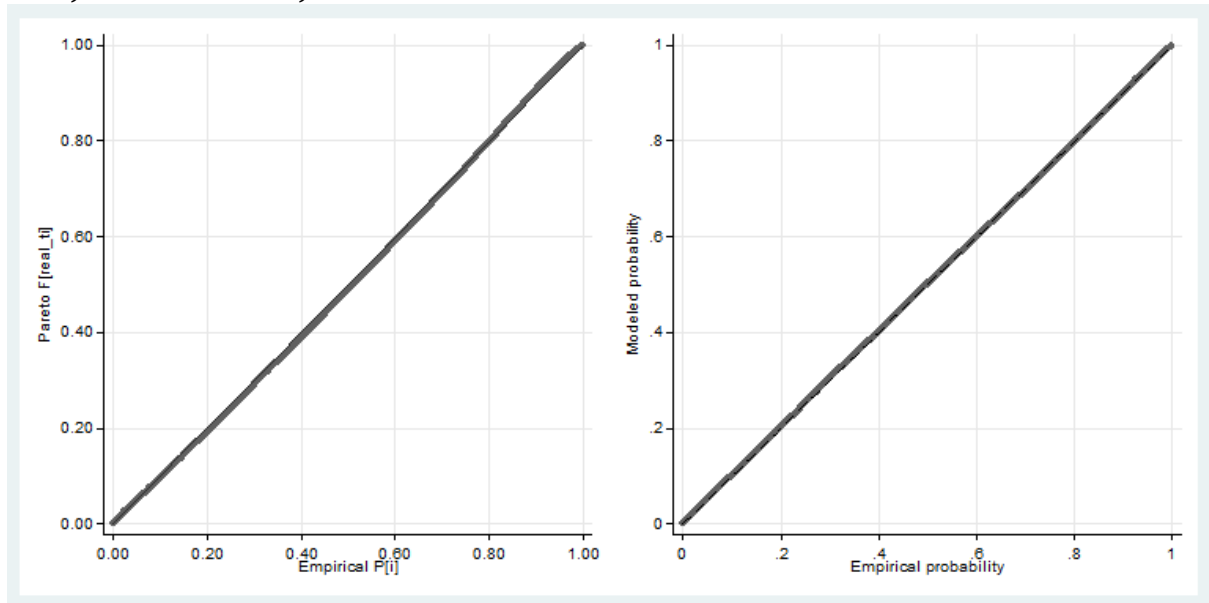


1998, threshold = £80,000

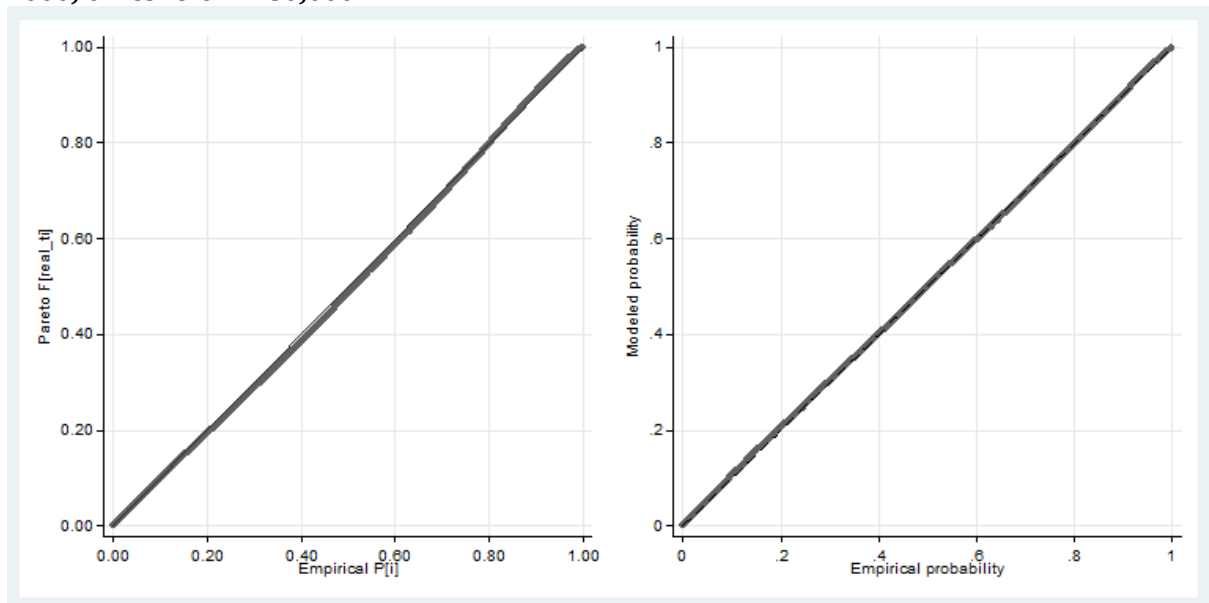


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £80,000

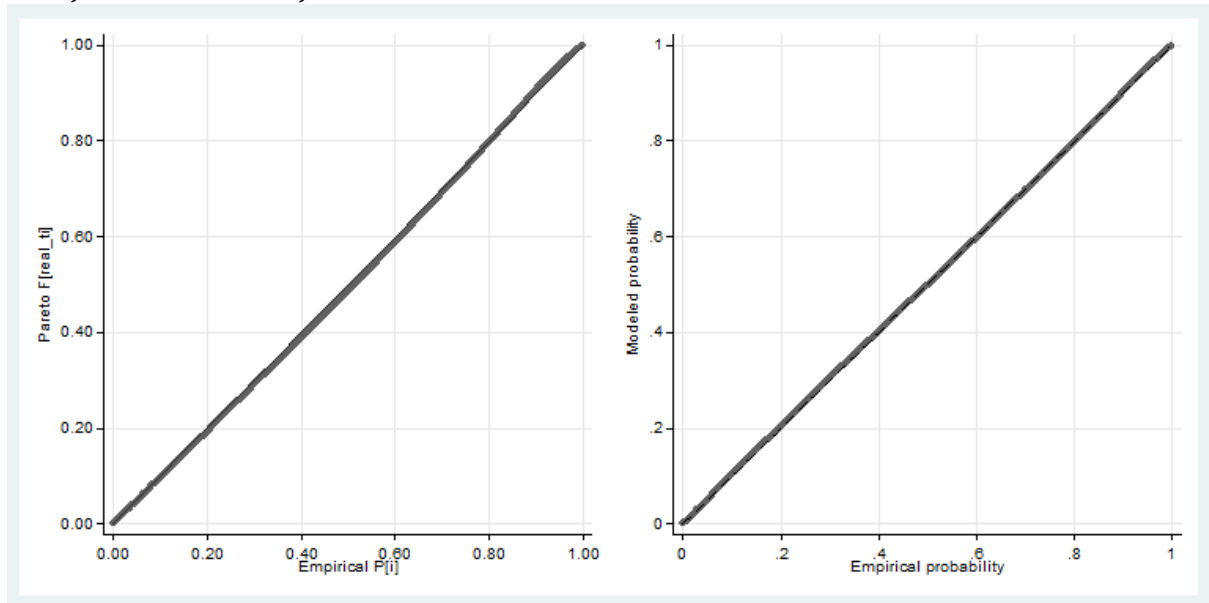


2000, threshold = £80,000

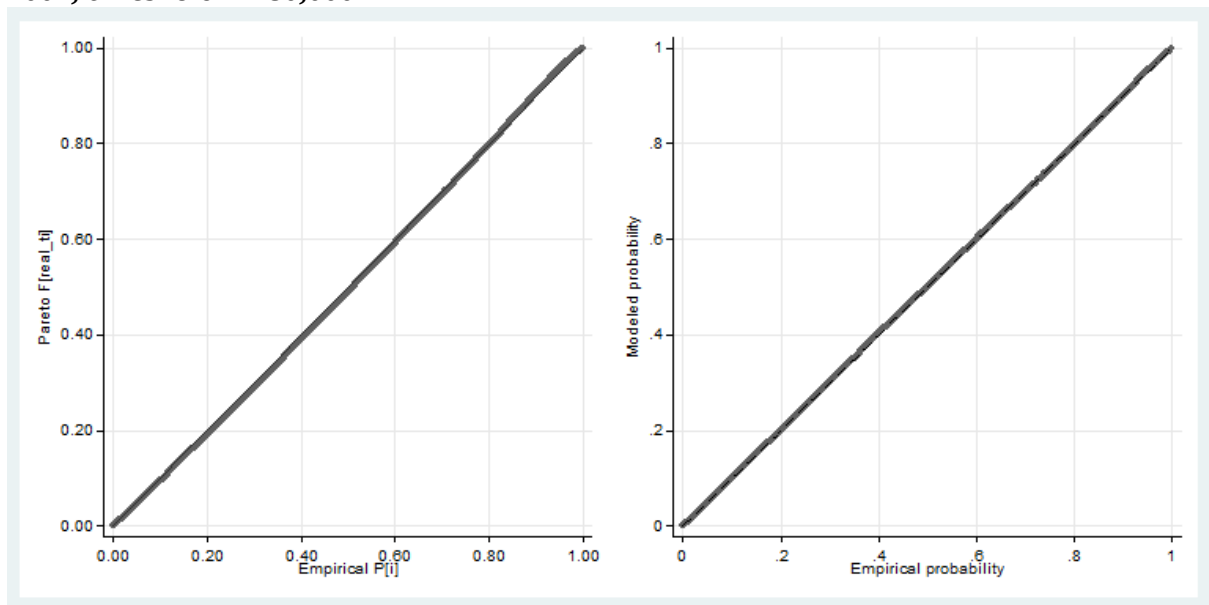


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £80,000

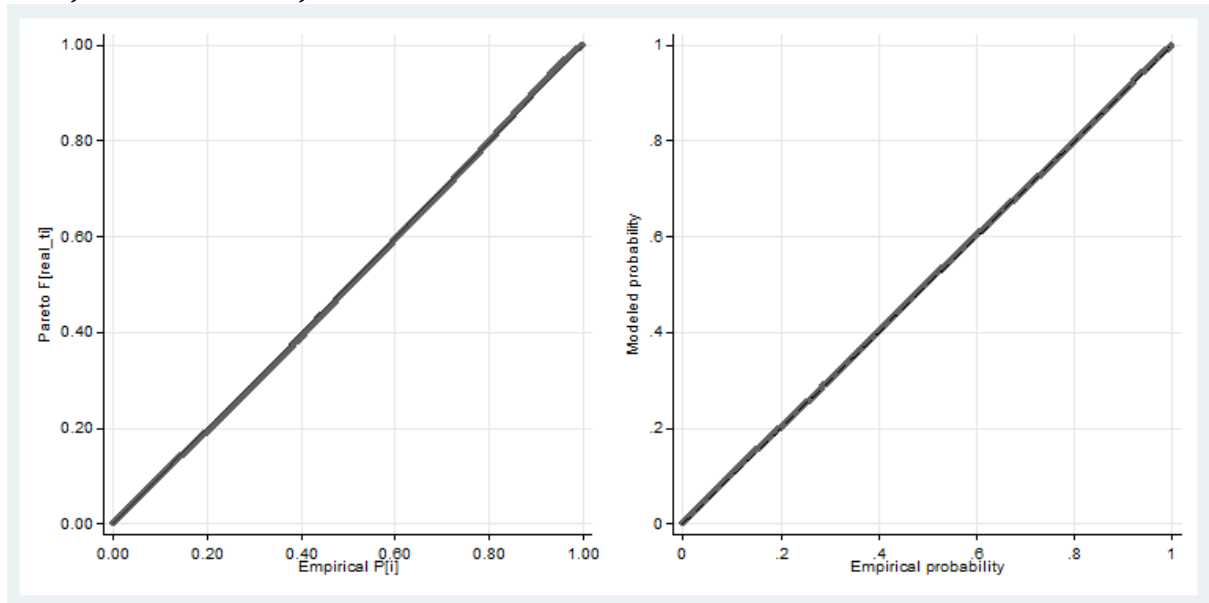


2002, threshold = £80,000

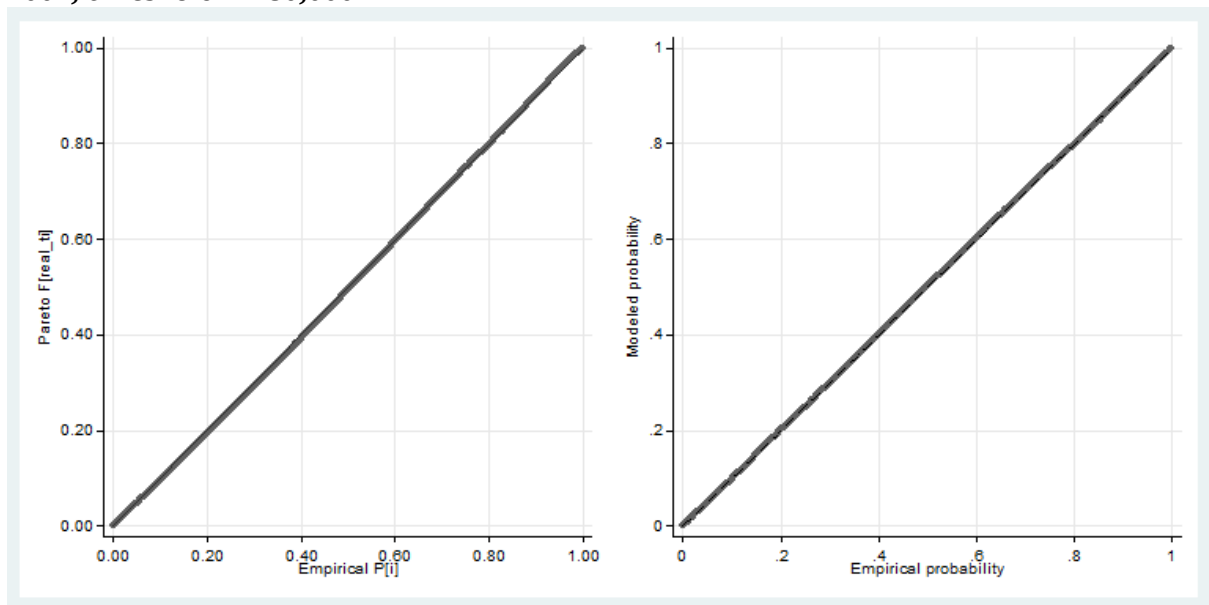


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £80,000

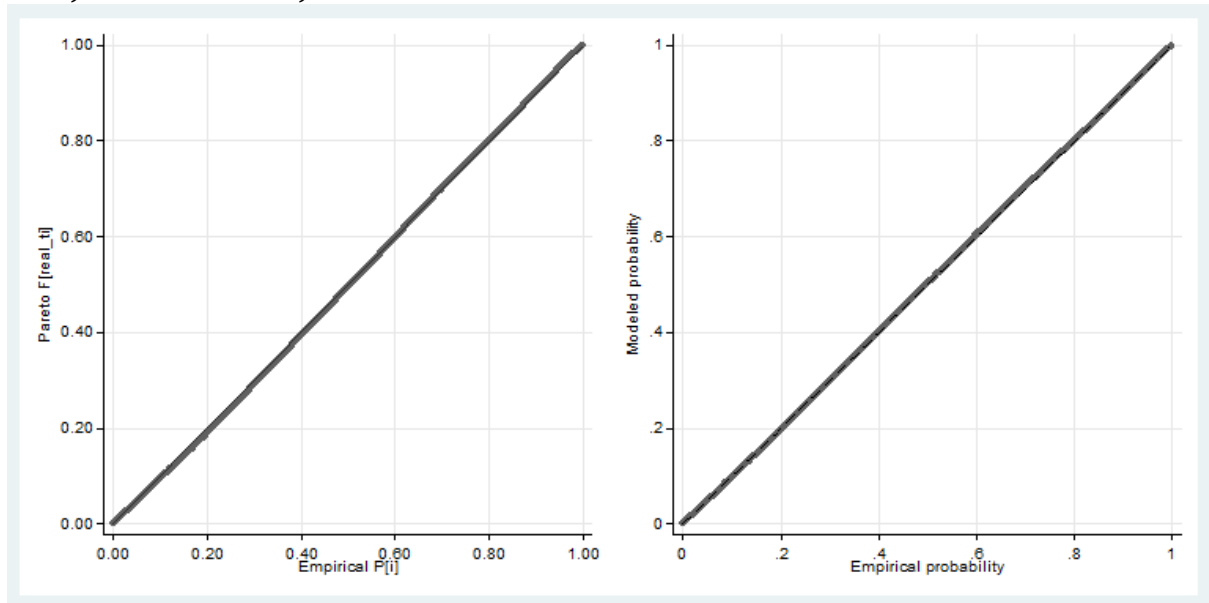


2004, threshold = £80,000

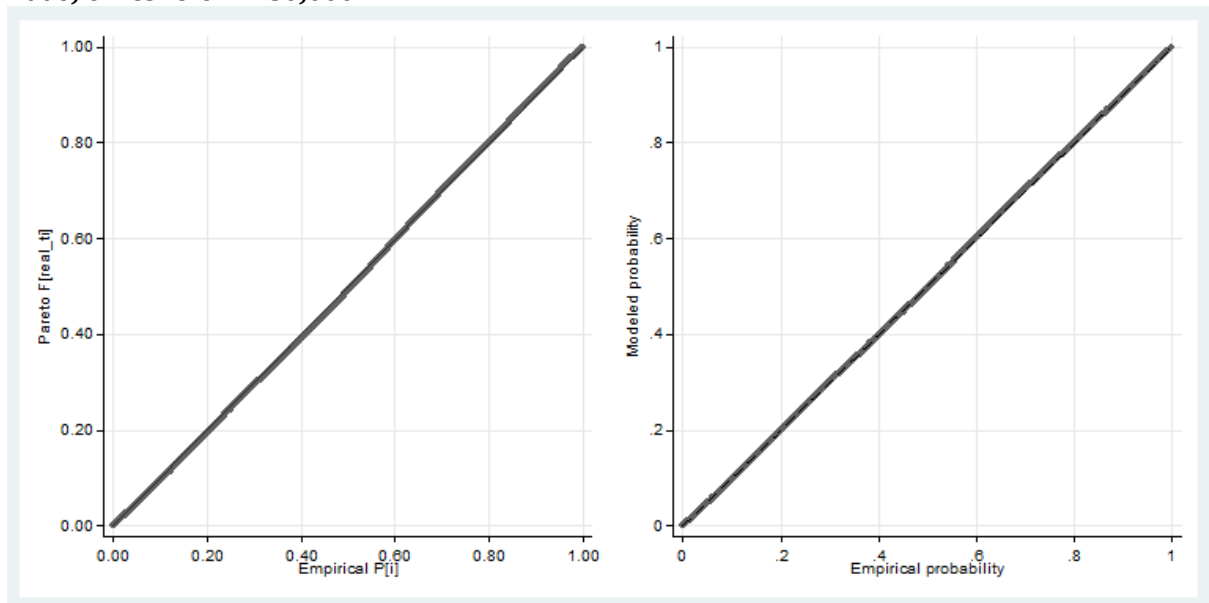


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £80,000

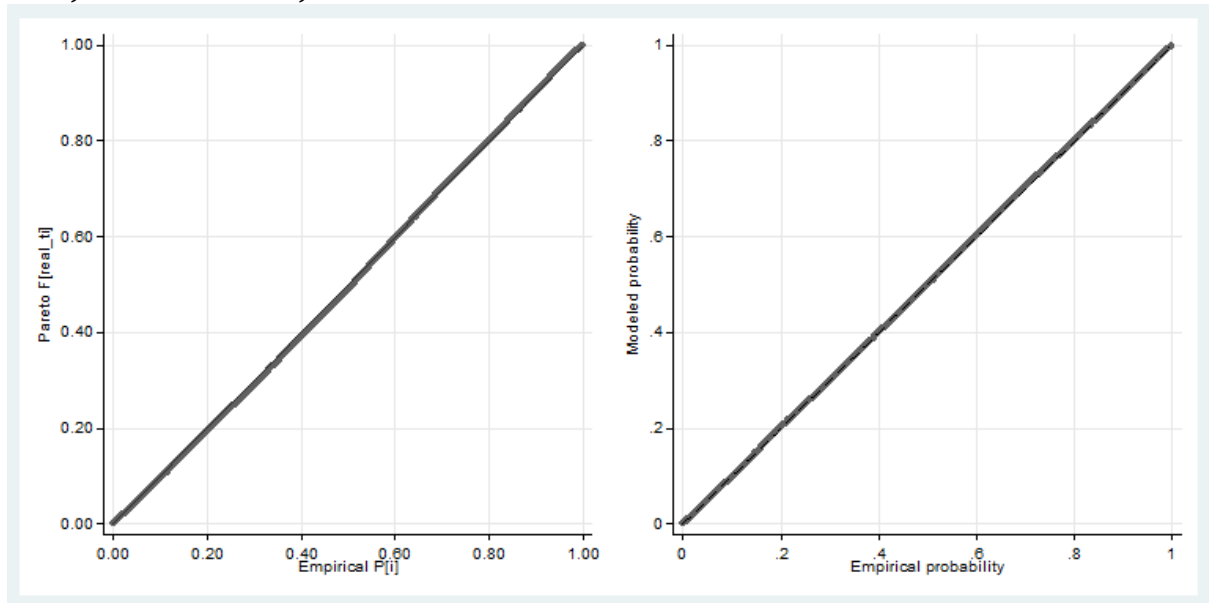


2006, threshold = £80,000

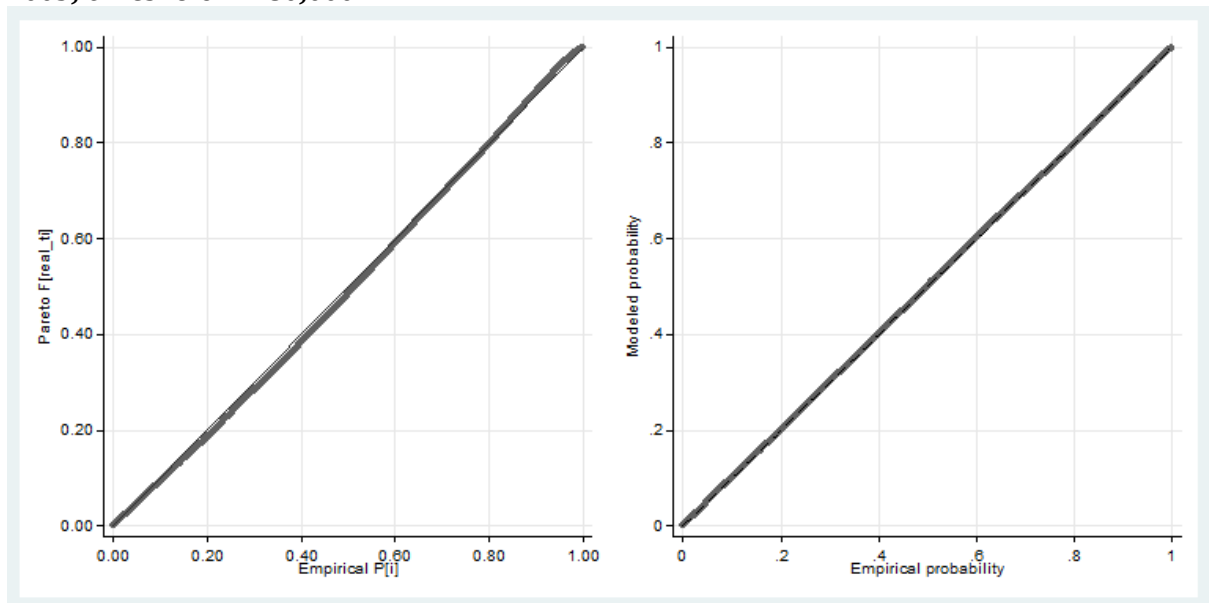


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £80,000

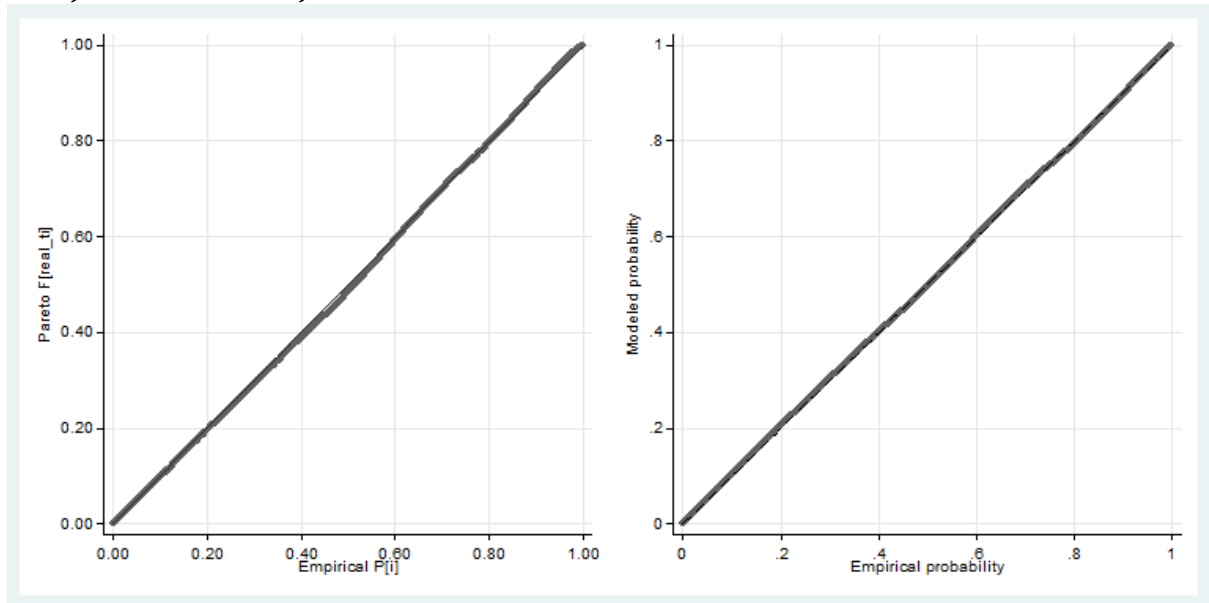


2009, threshold = £80,000



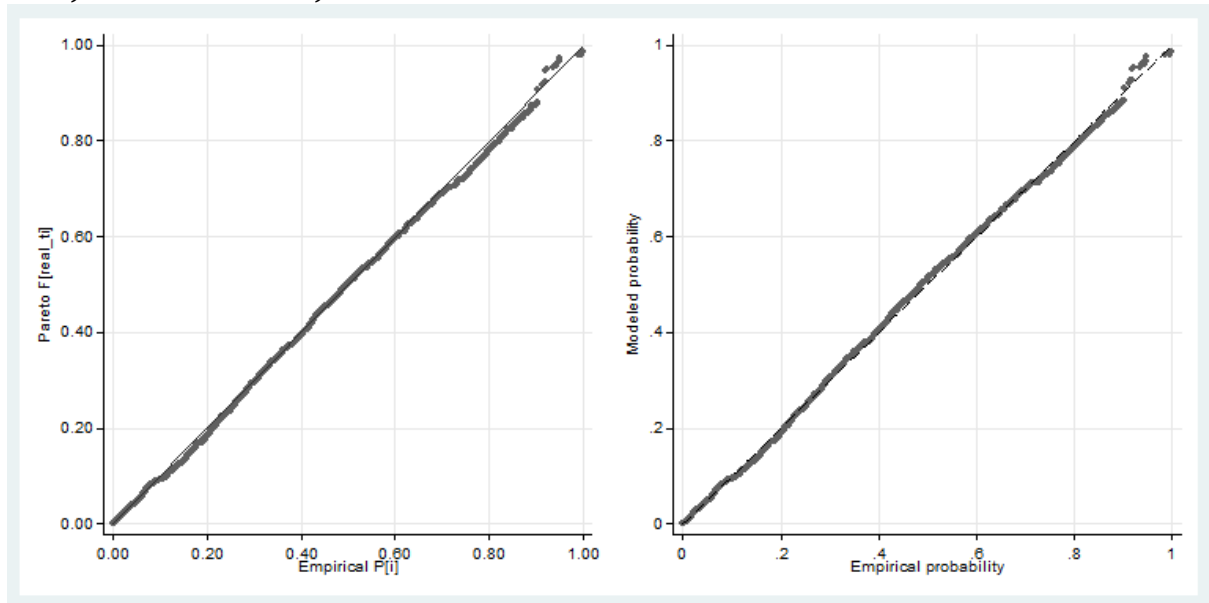
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £80,000

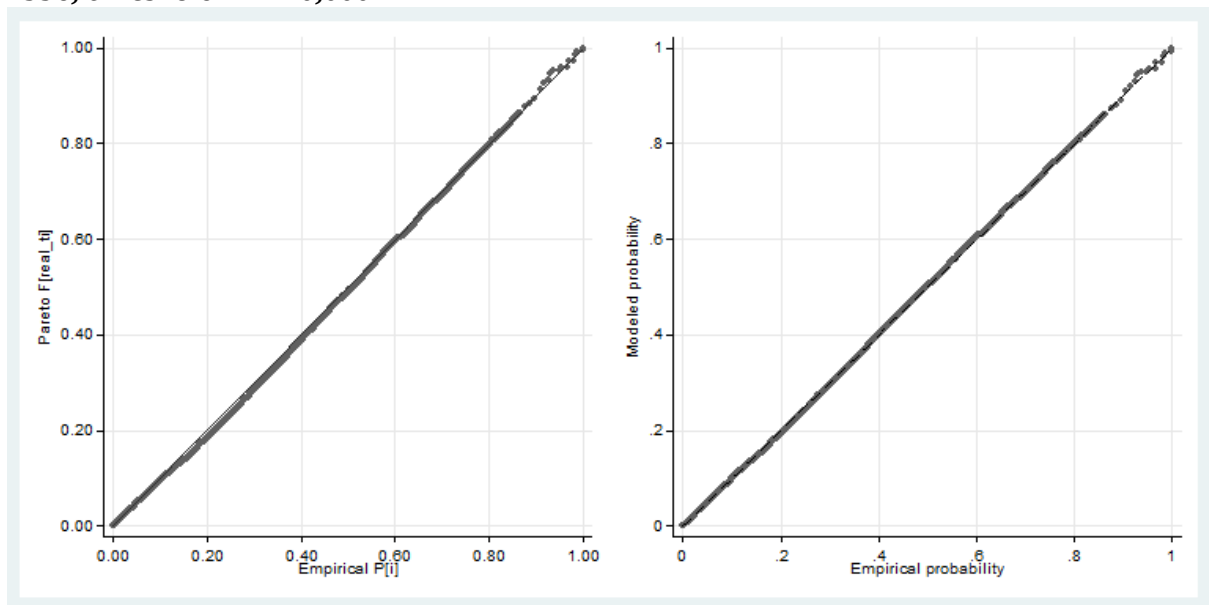


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £120,000

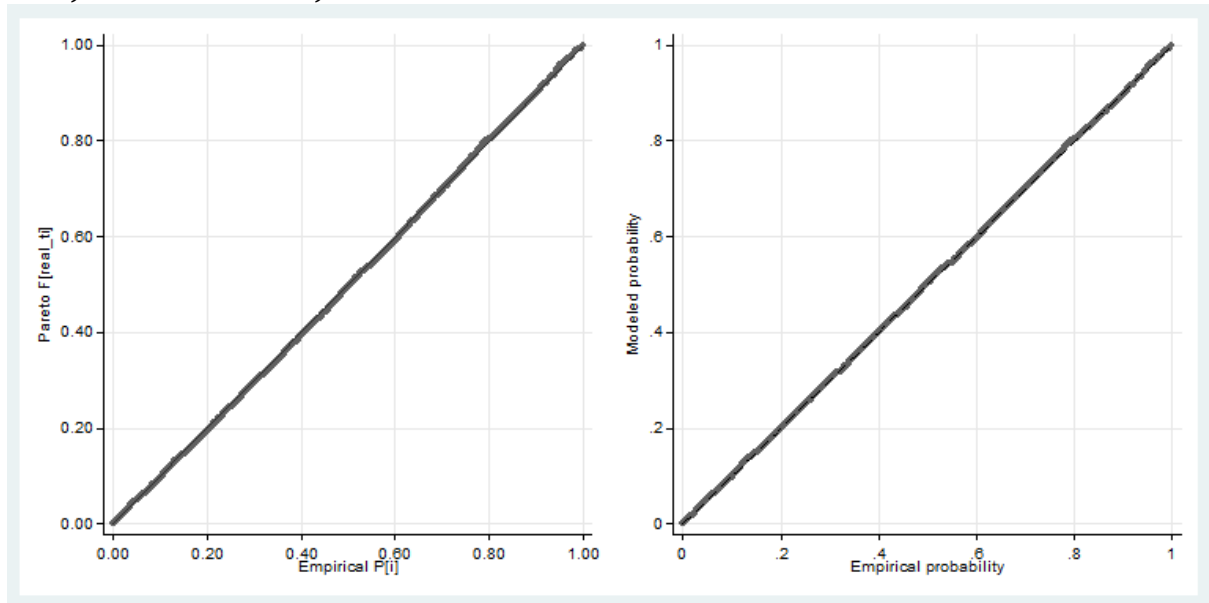


1996, threshold = £120,000

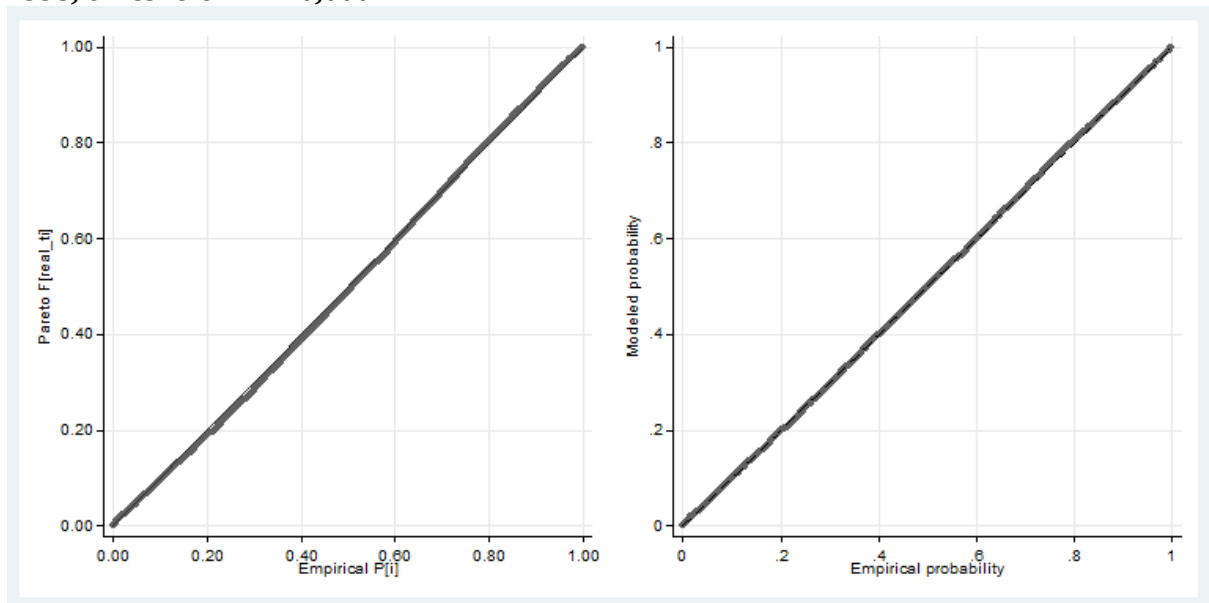


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £120,000

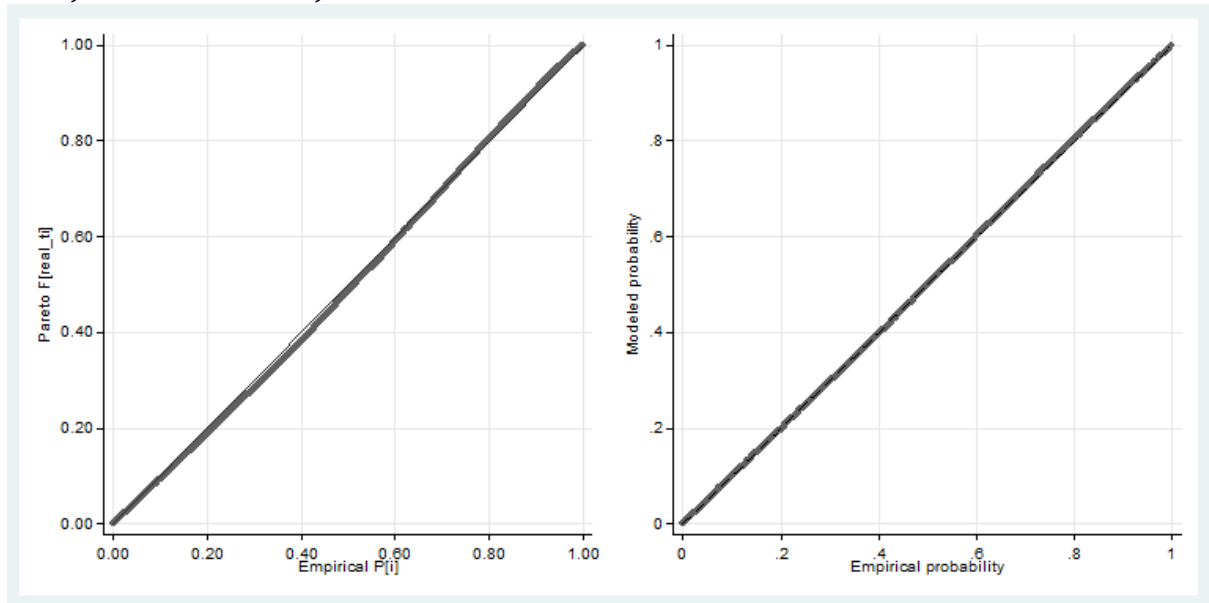


1998, threshold = £120,000

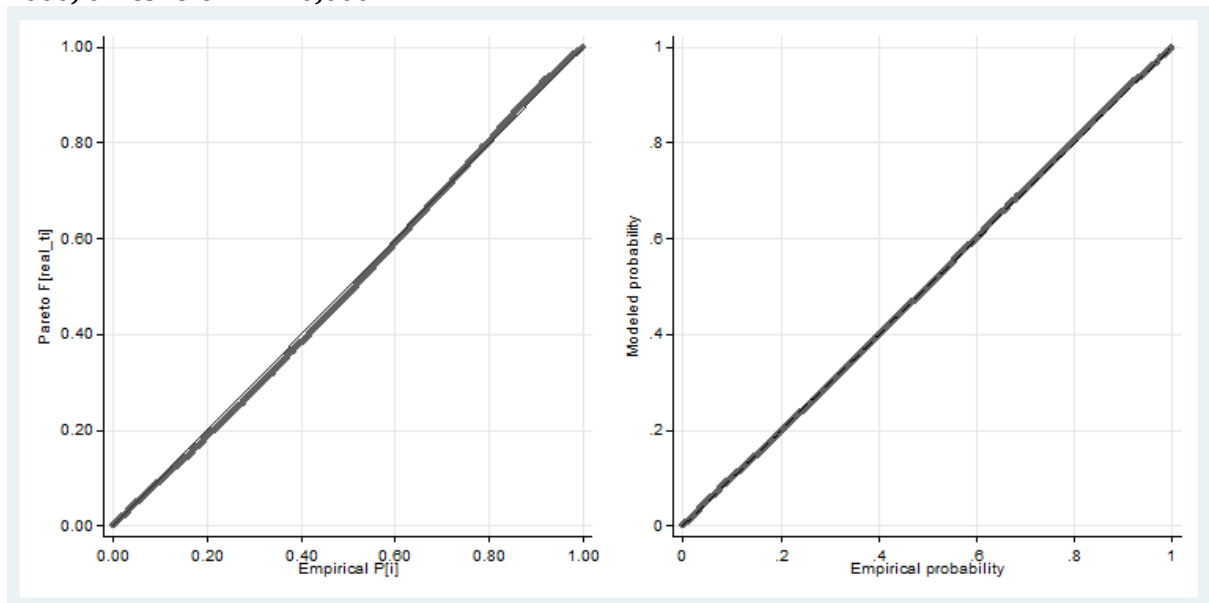


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £120,000

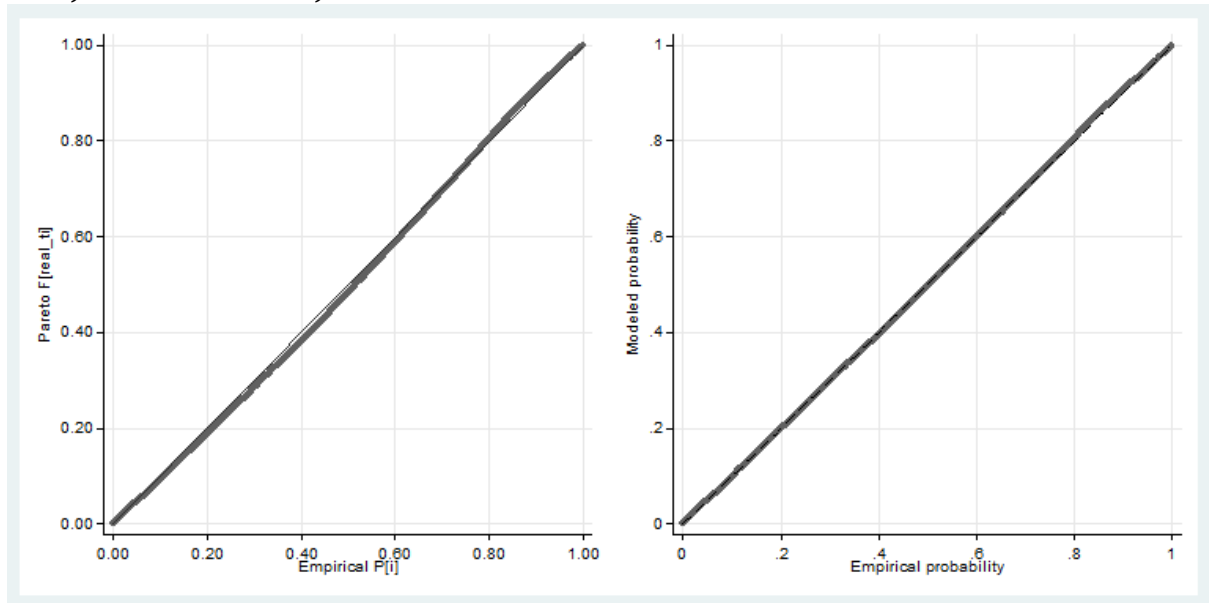


2000, threshold = £120,000

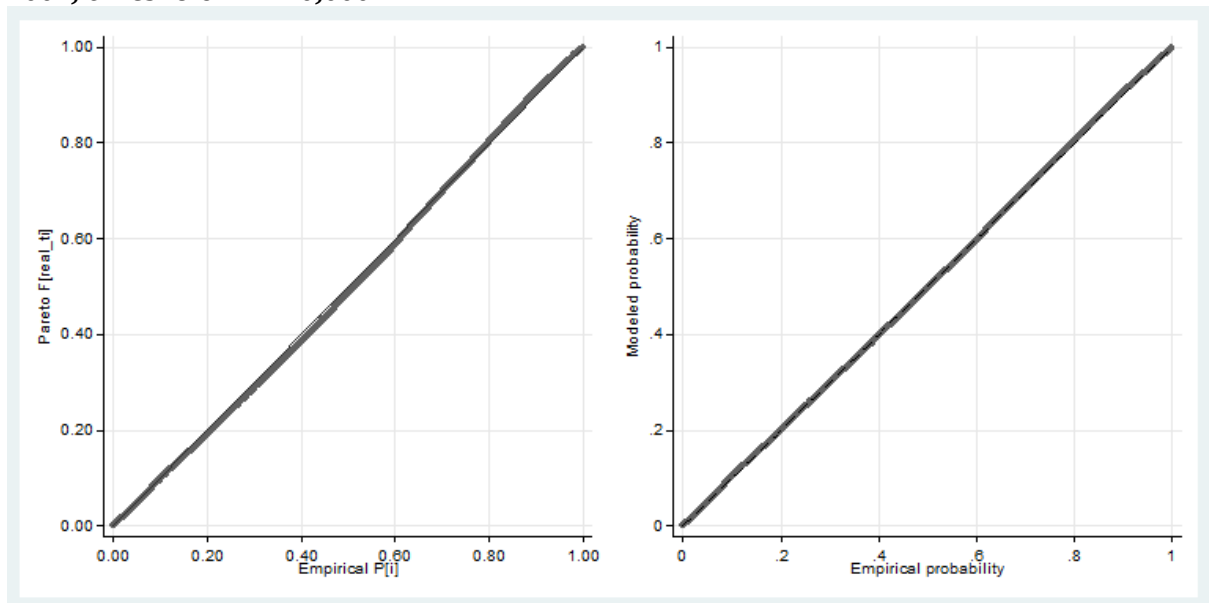


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £120,000

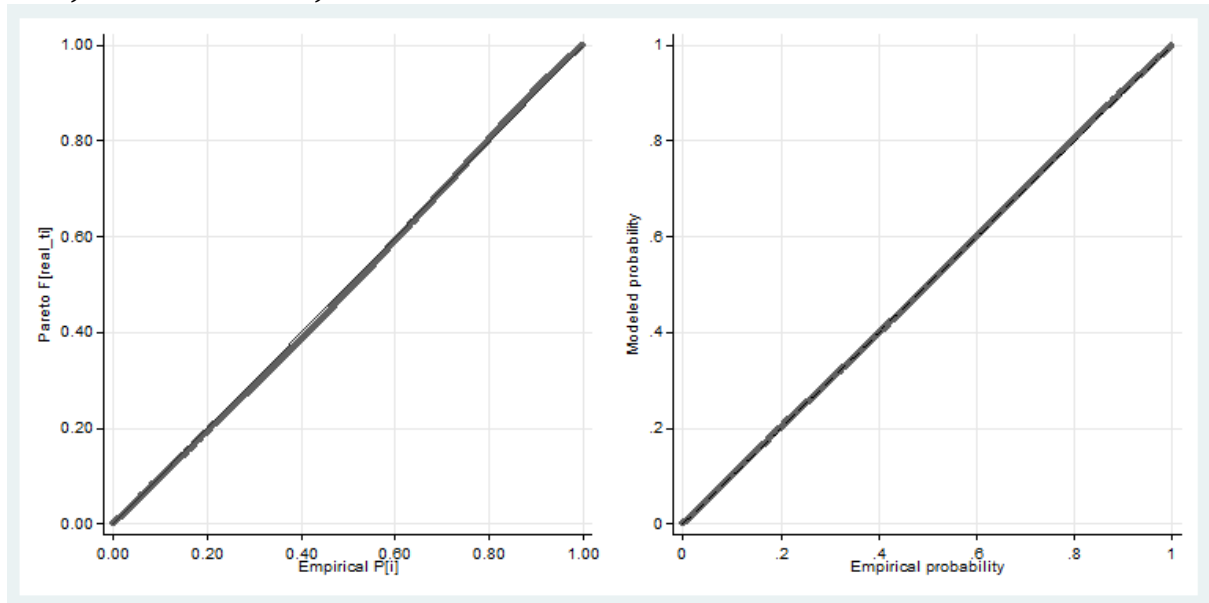


2002, threshold = £120,000

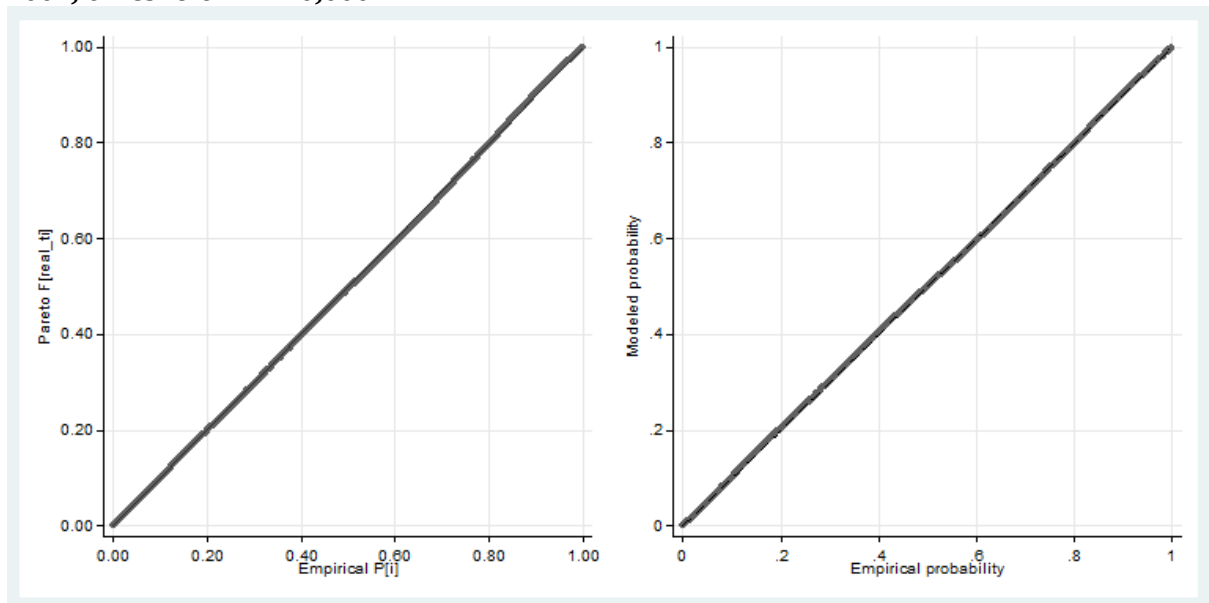


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £120,000

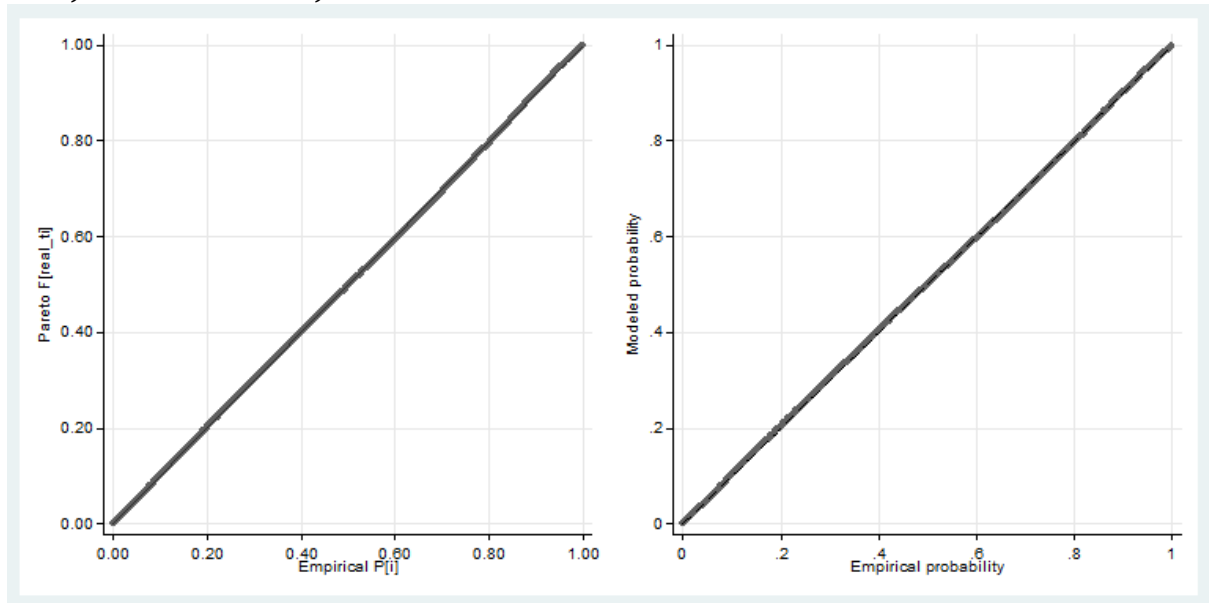


2004, threshold = £120,000

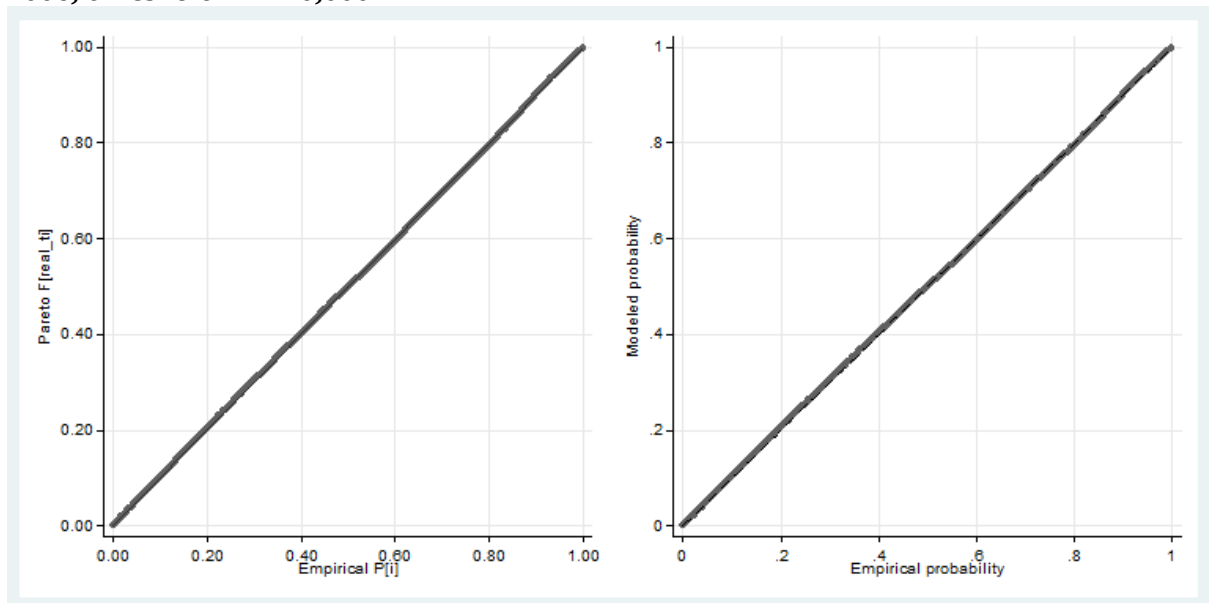


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £120,000

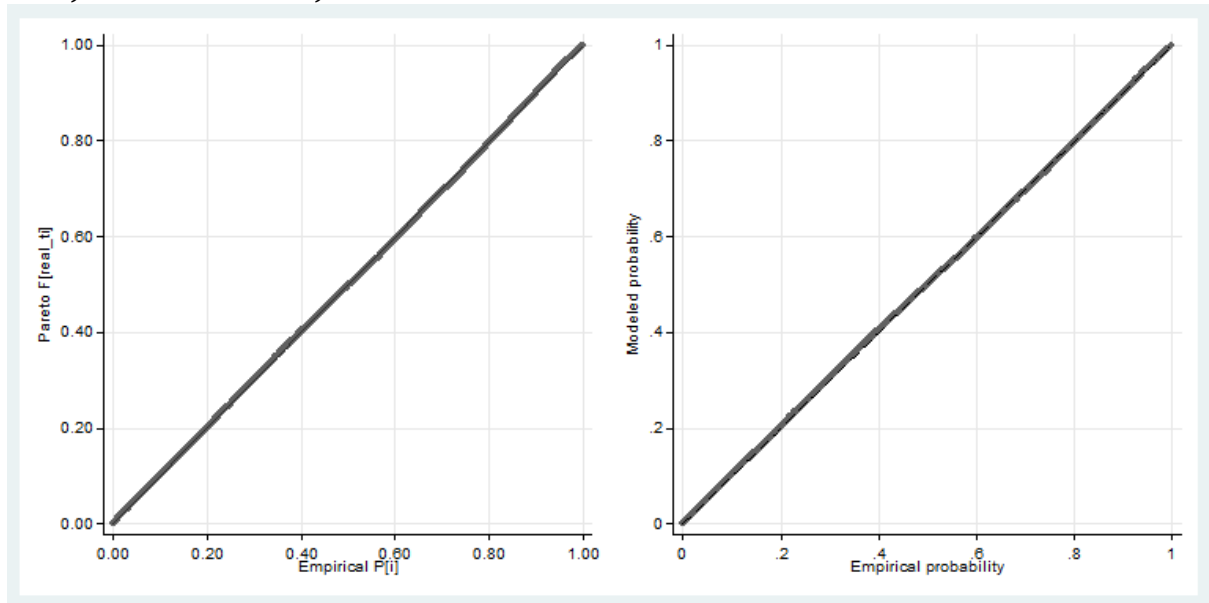


2006, threshold = £120,000

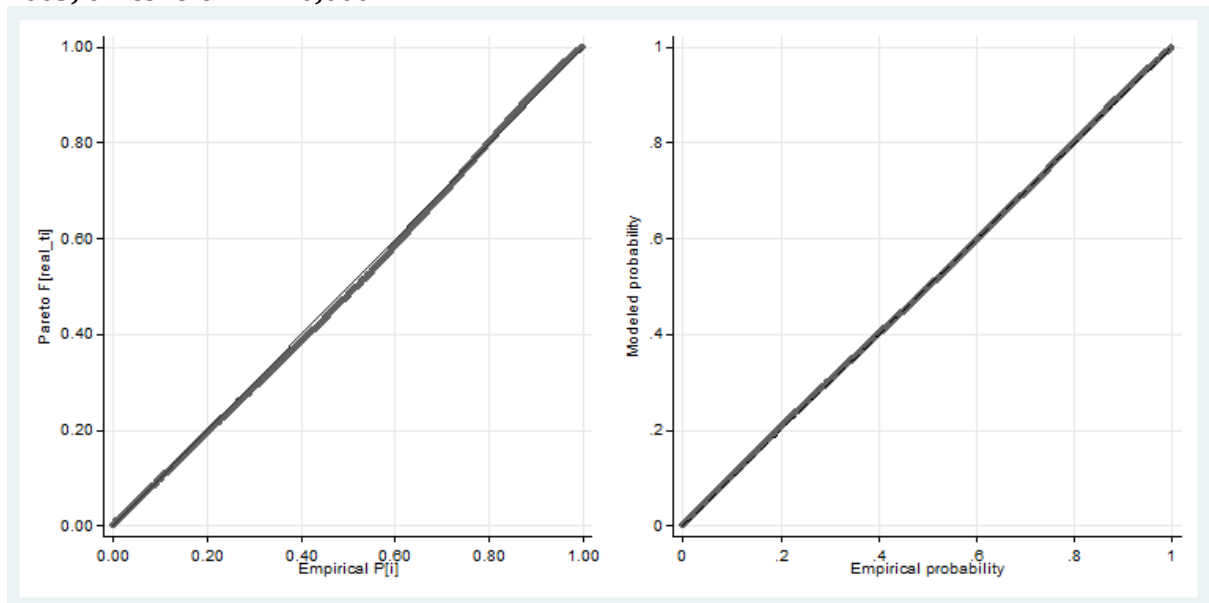


PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £120,000

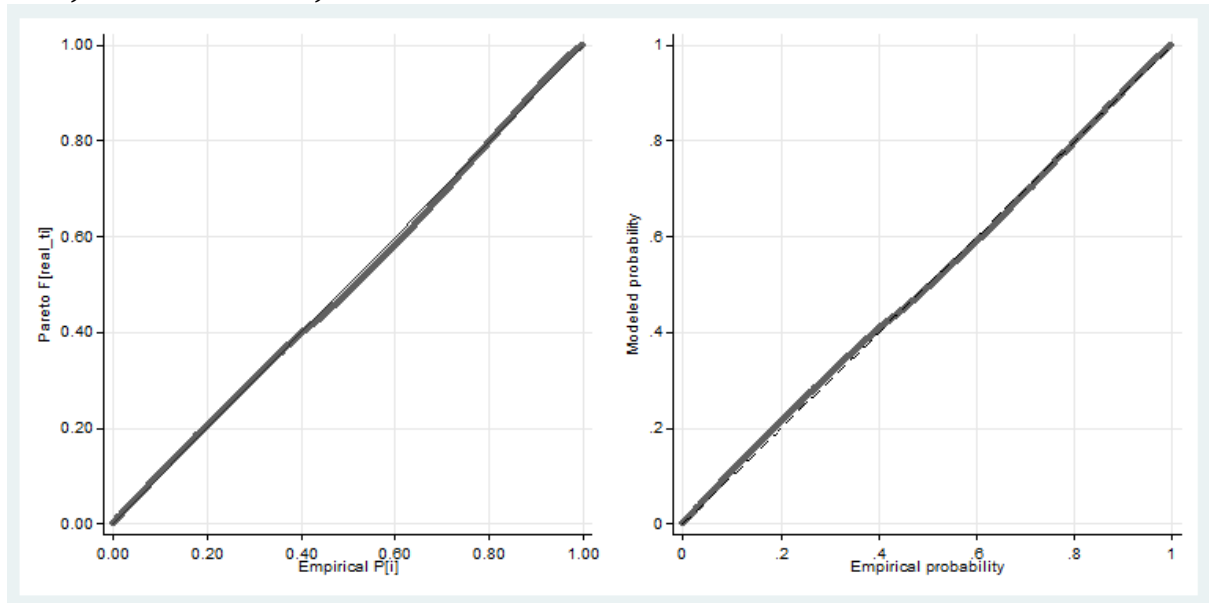


2009, threshold = £120,000



PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £120,000

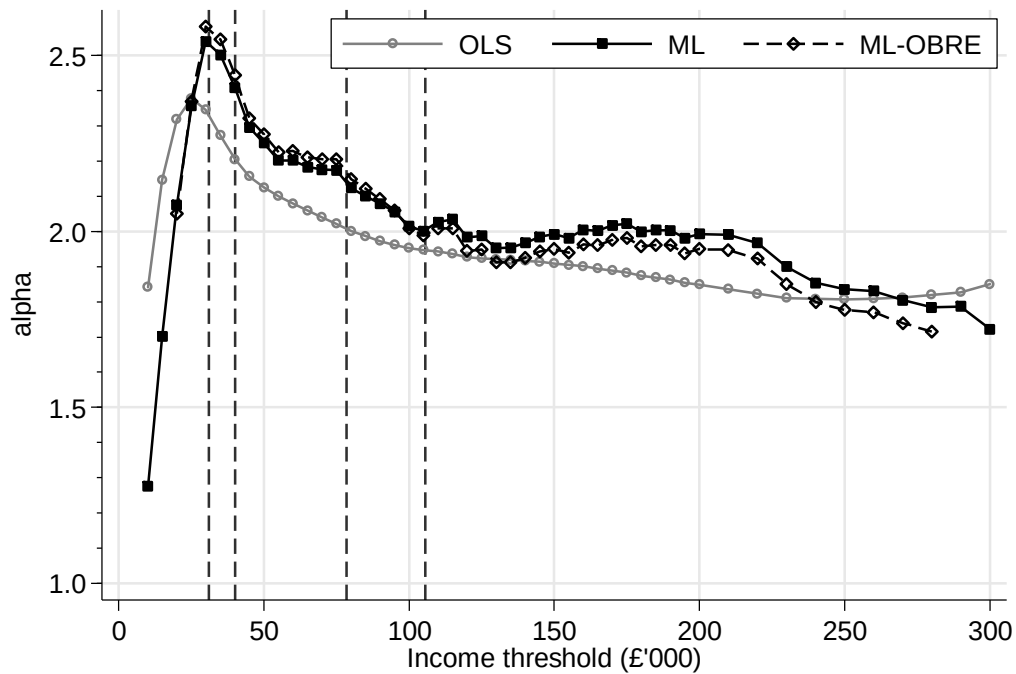


Estimates of Pareto I and II parameters, by estimator, threshold, and year

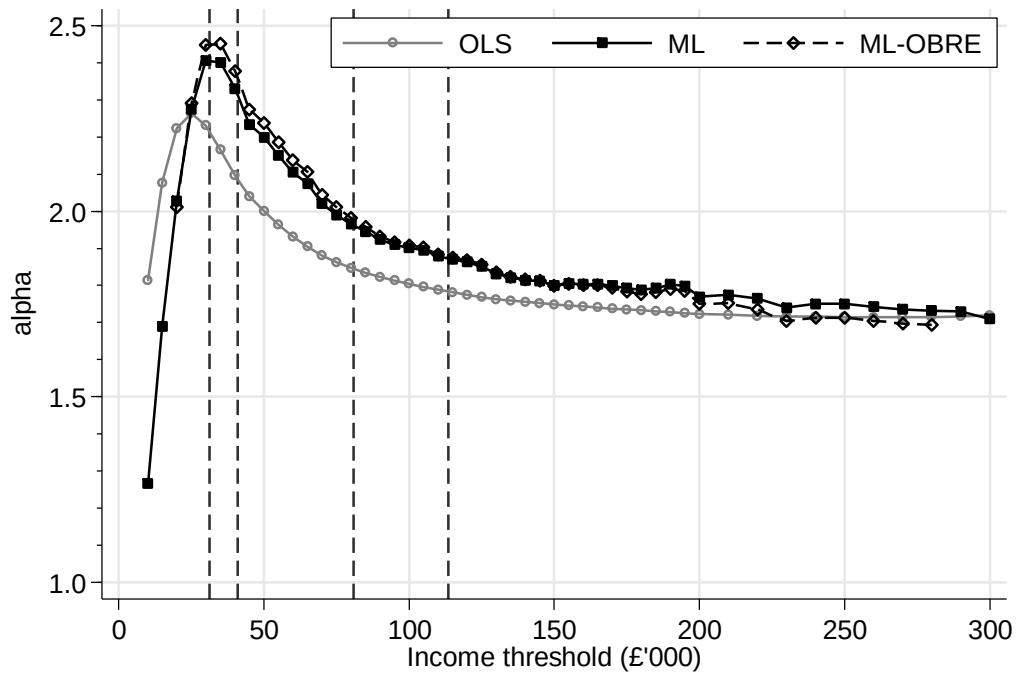
Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

Pareto I

1995

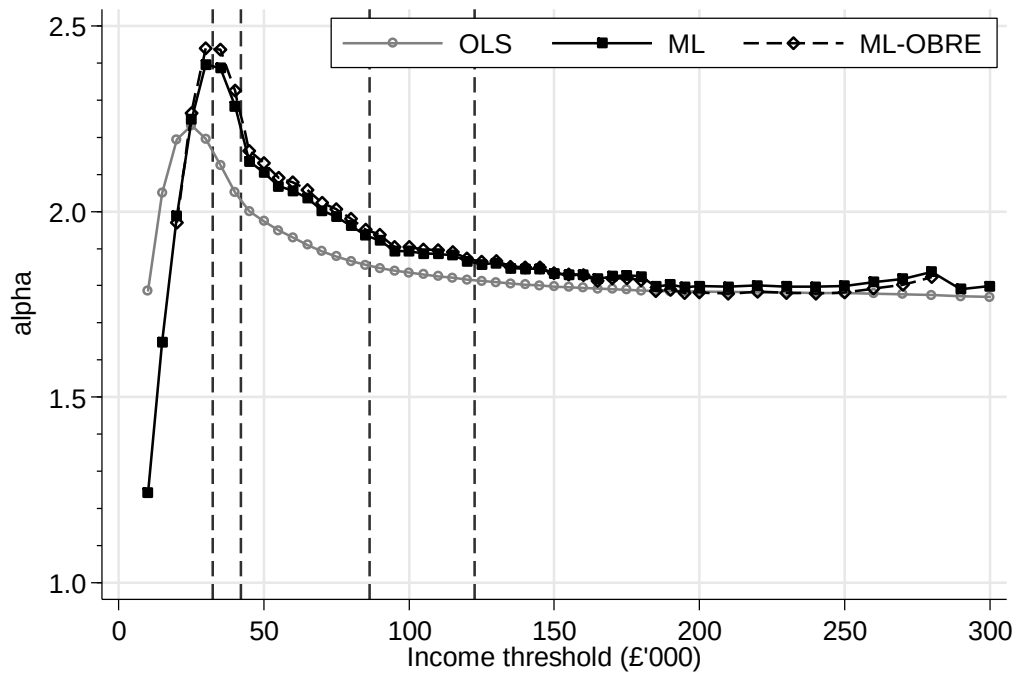


1996

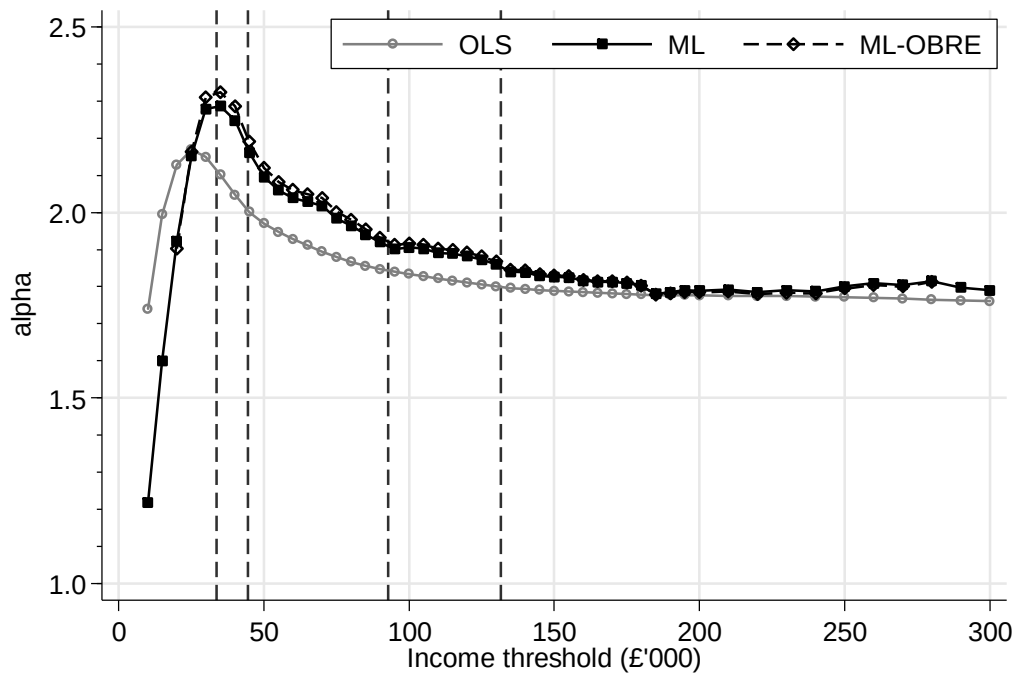


Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

1997

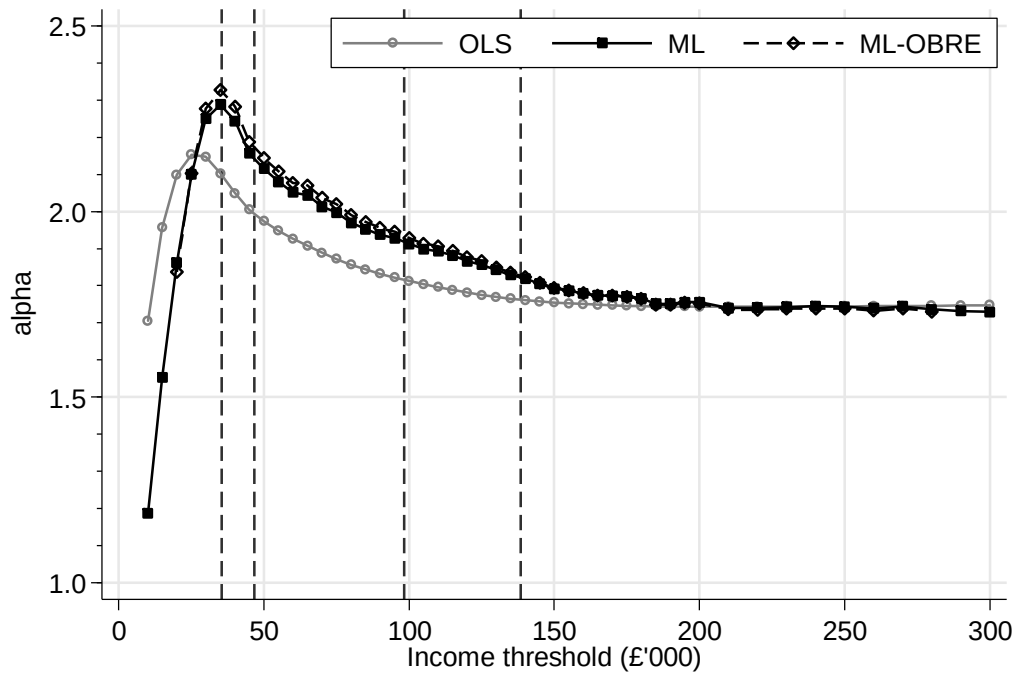


1998

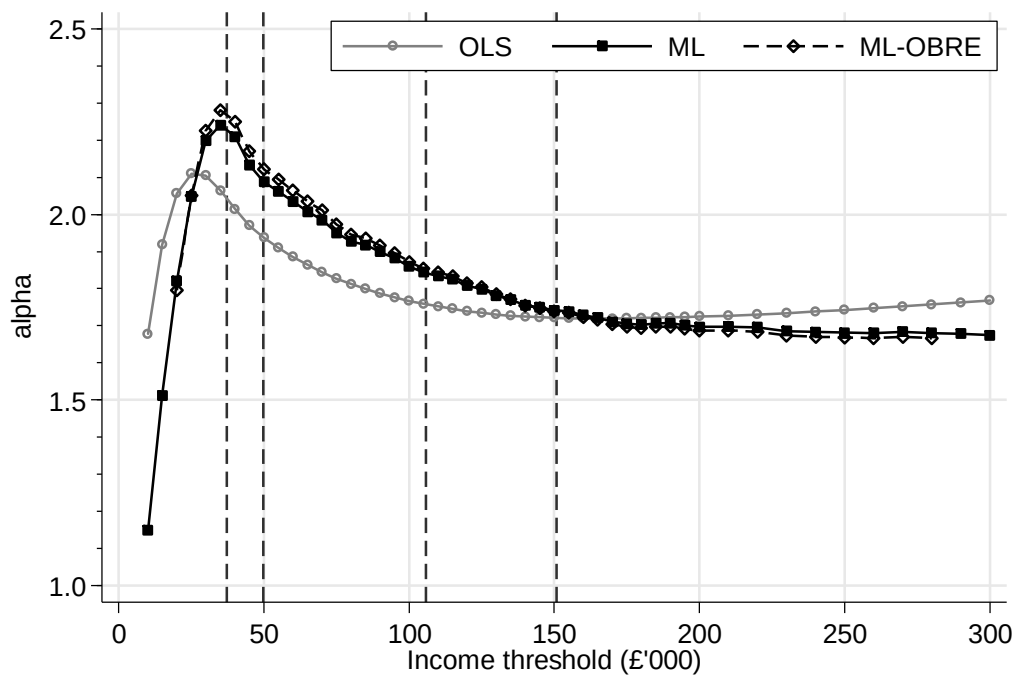


Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

1999

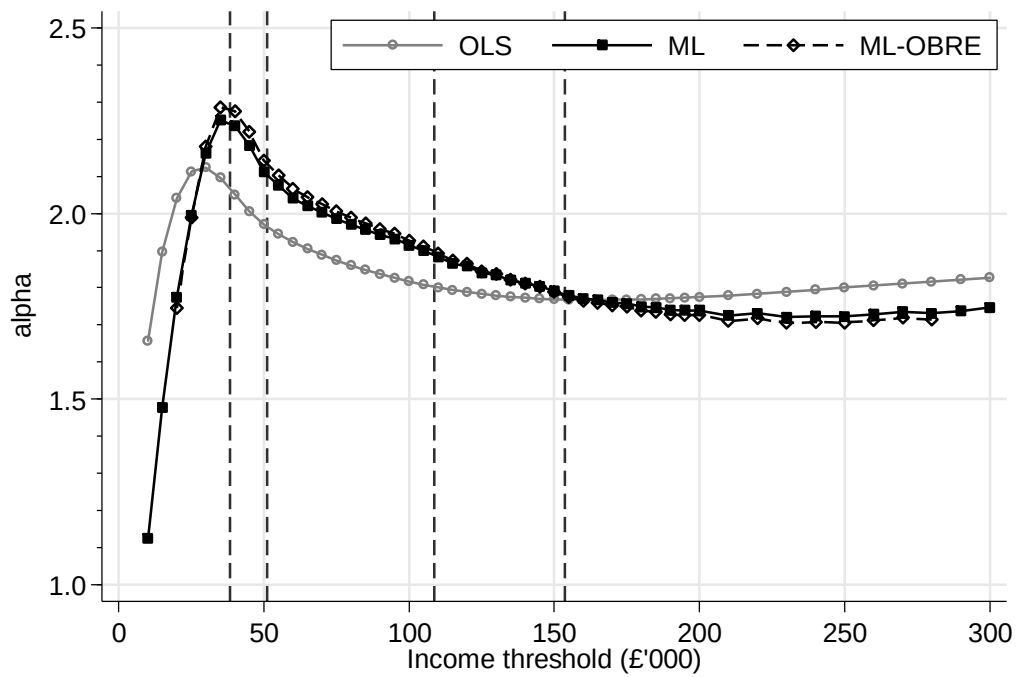


2000

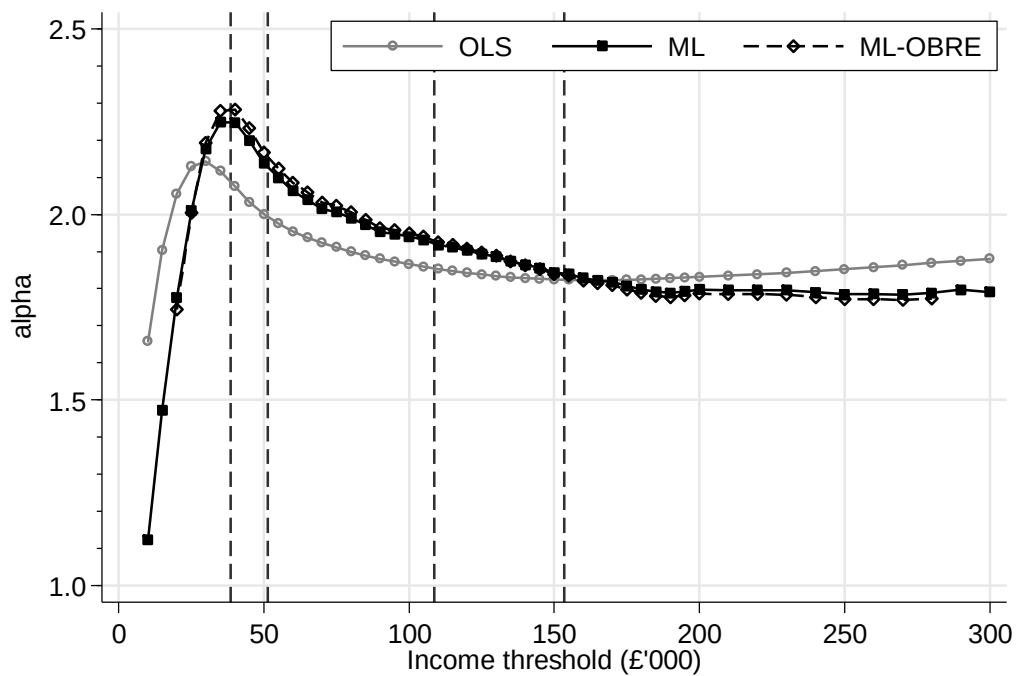


Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2001

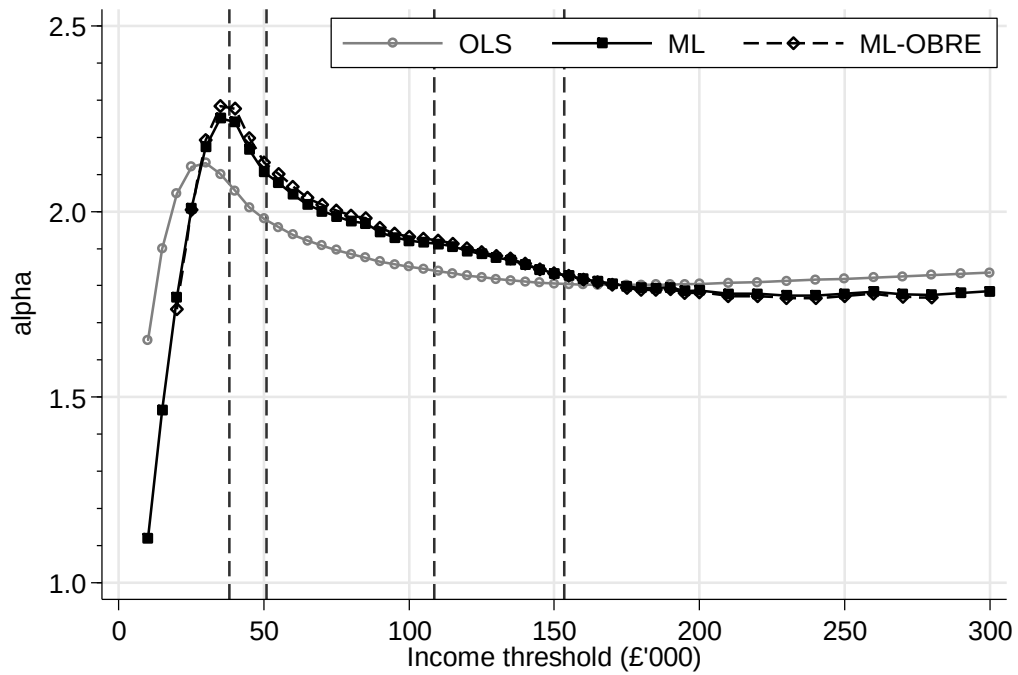


2002

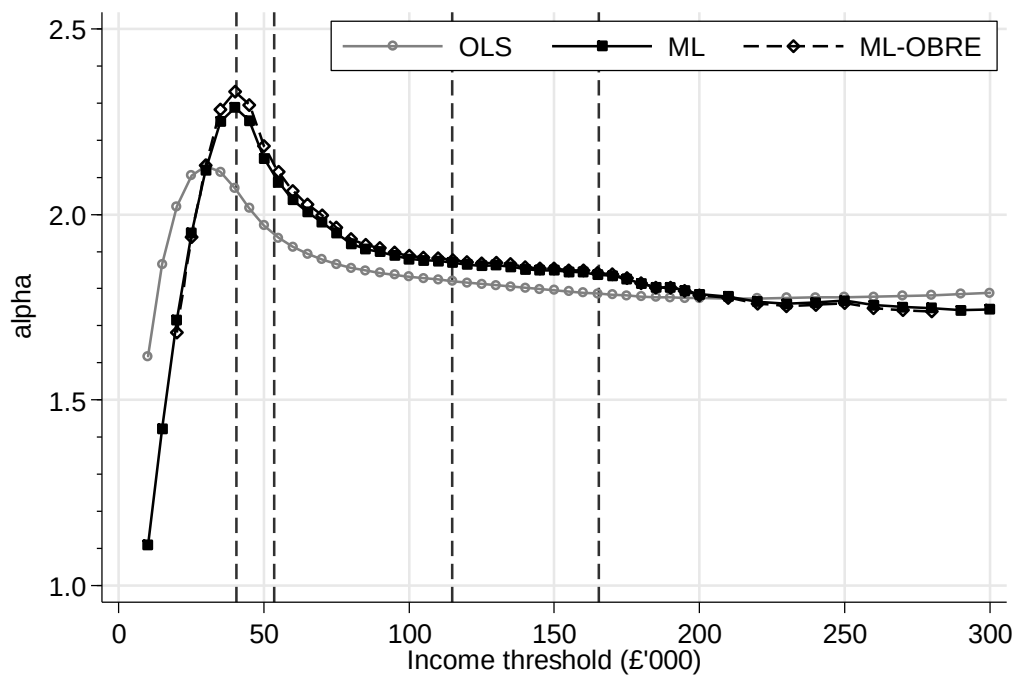


Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2003

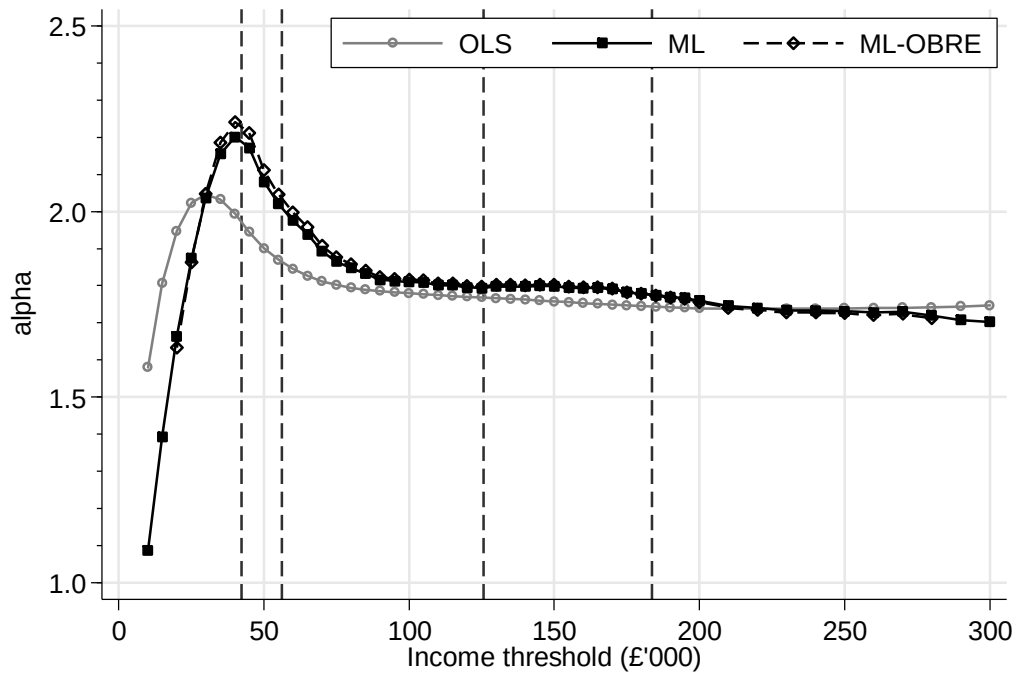


2004

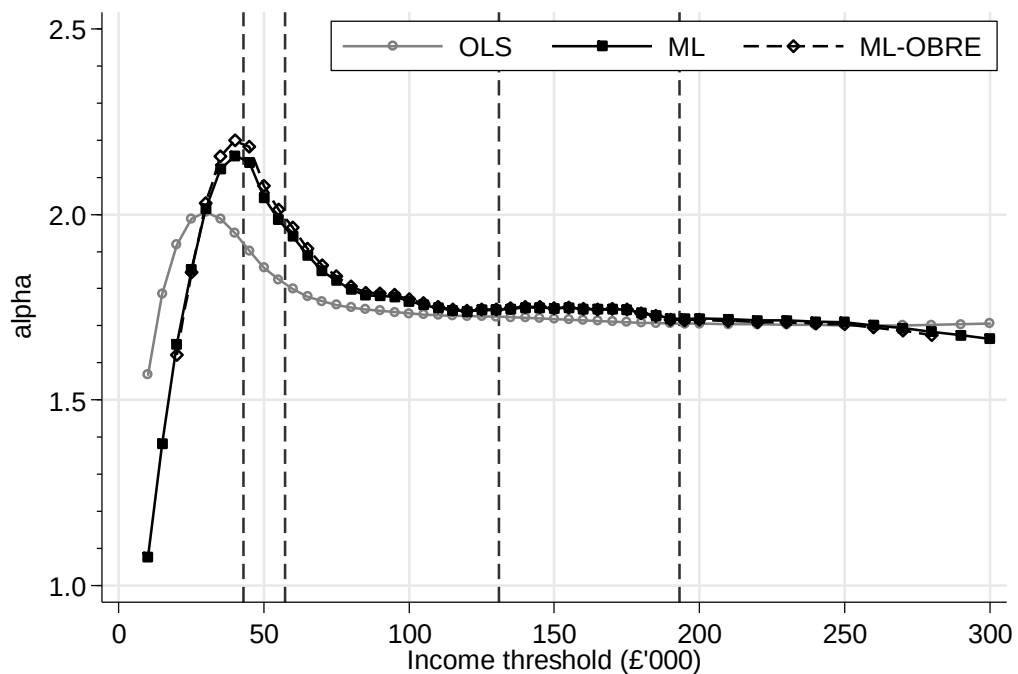


Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2005

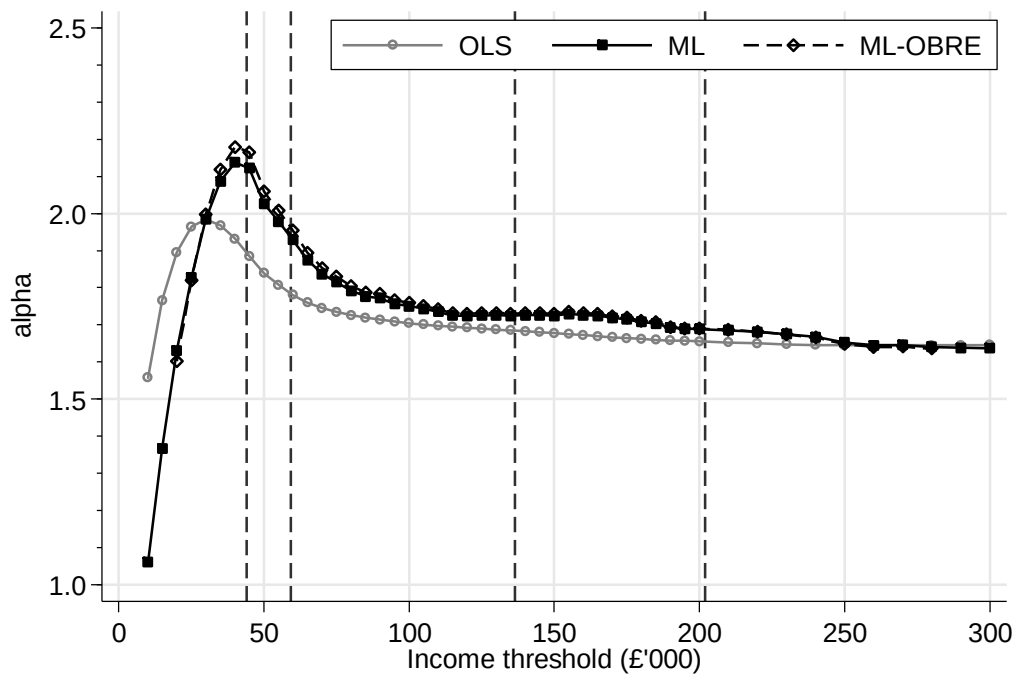


2006

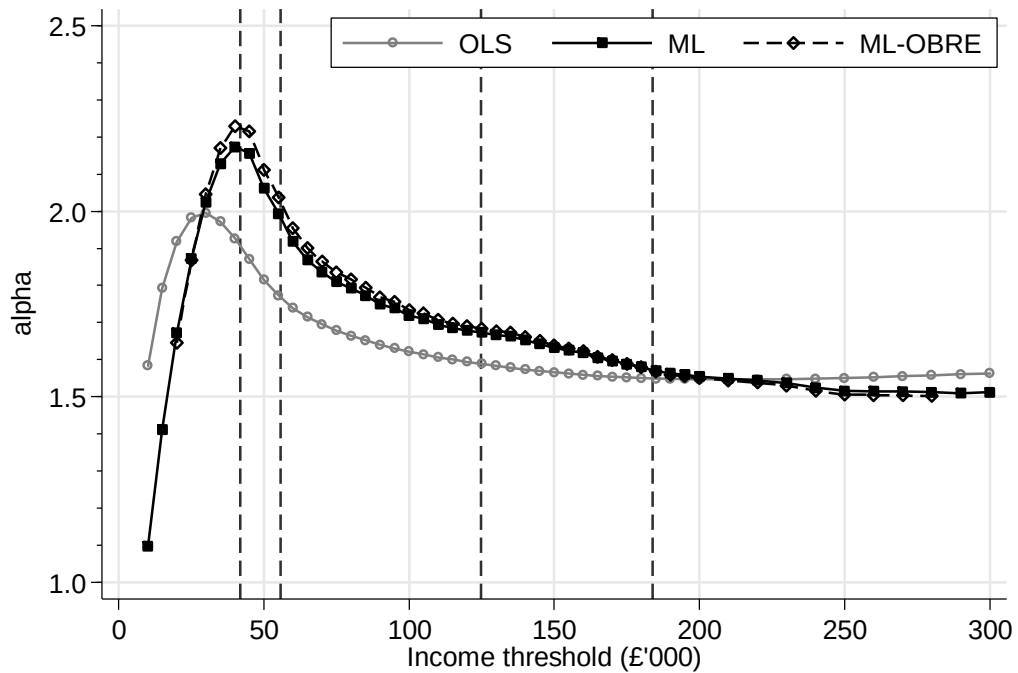


Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2007



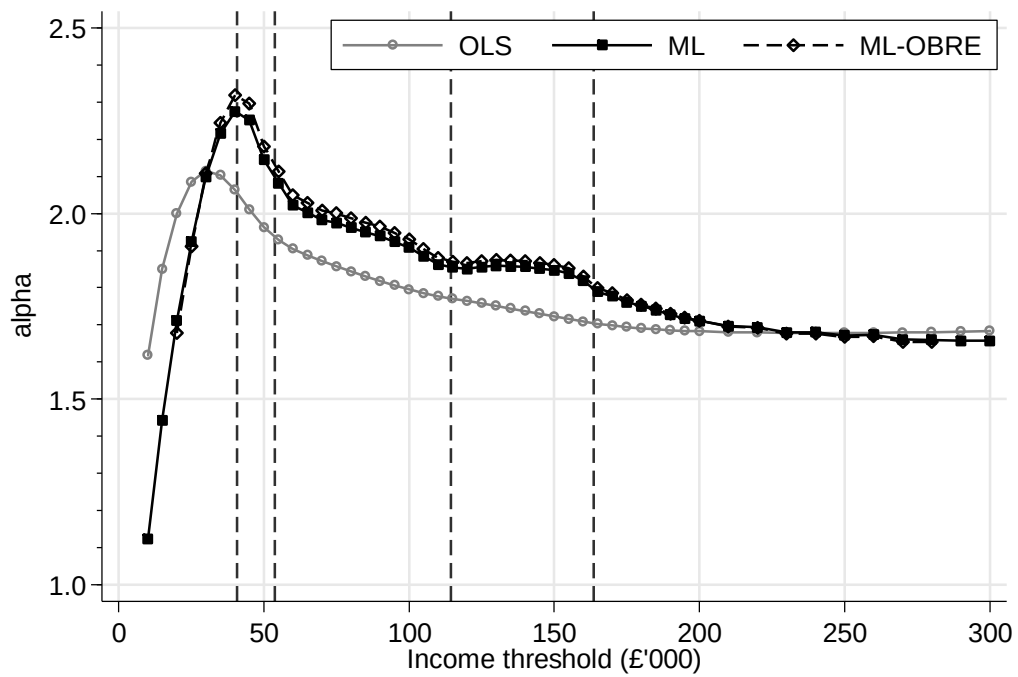
2009



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

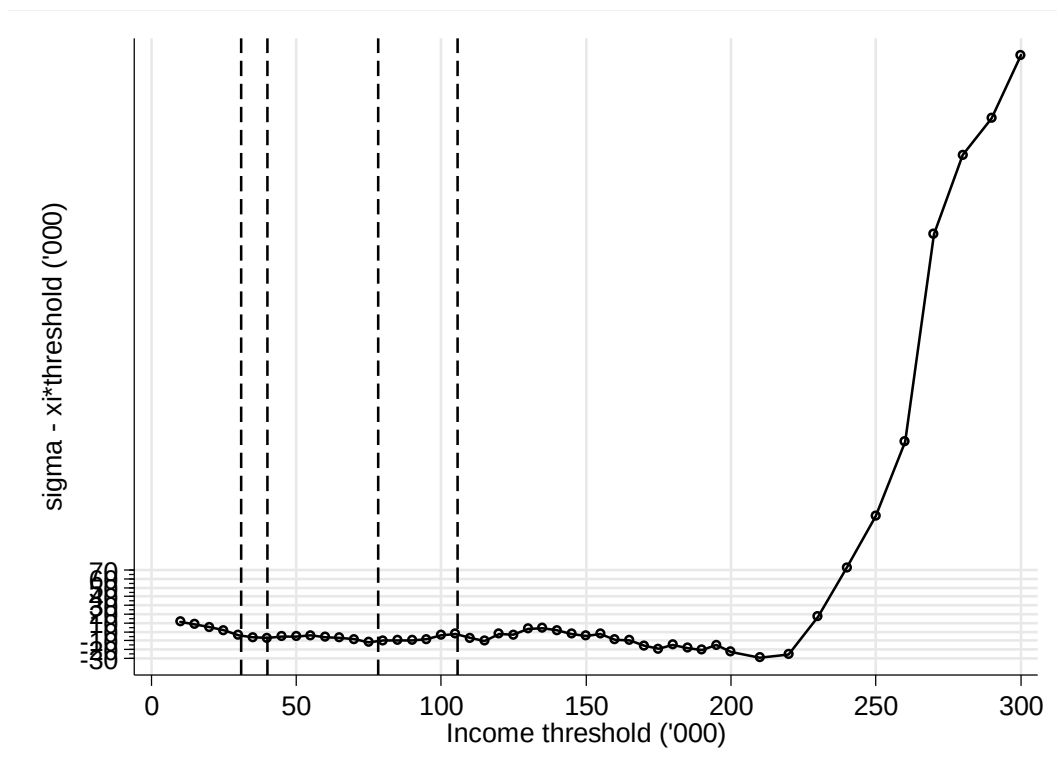
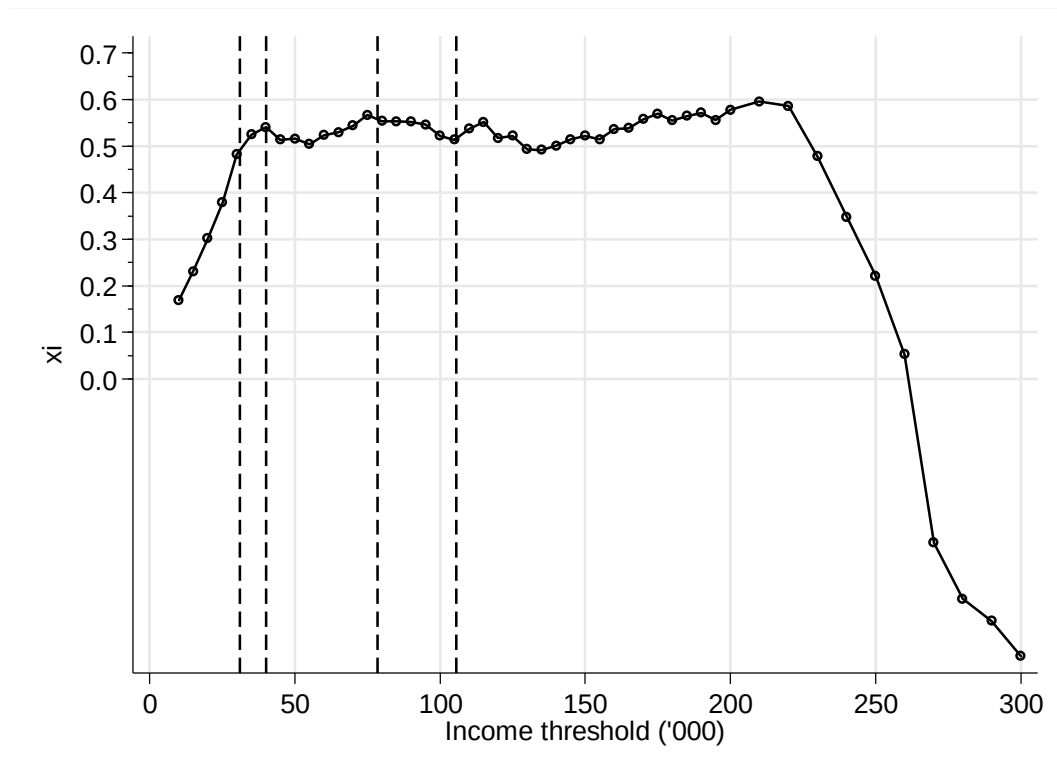
2010



Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

Pareto II (Generalized Pareto)

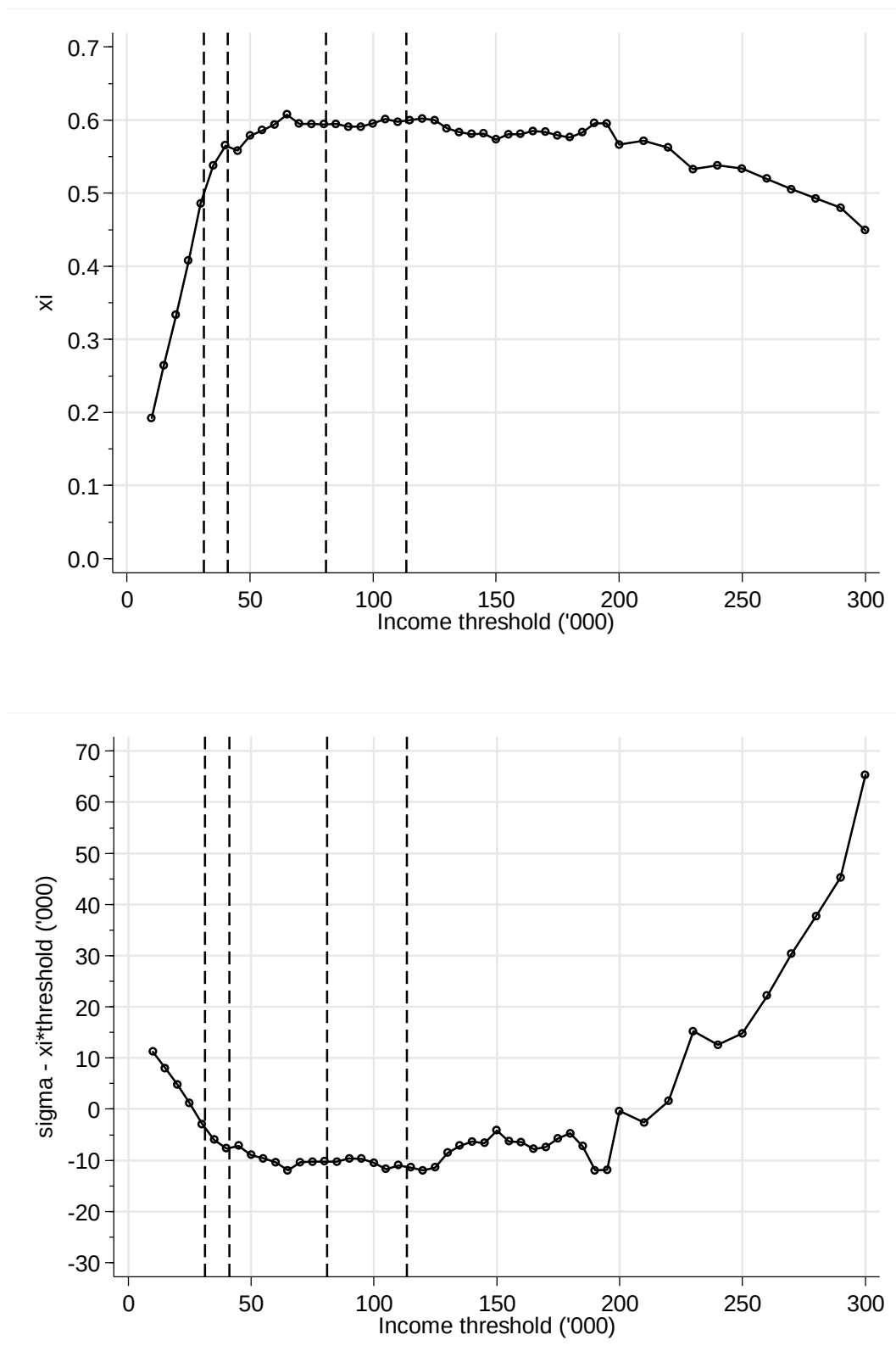
1995



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

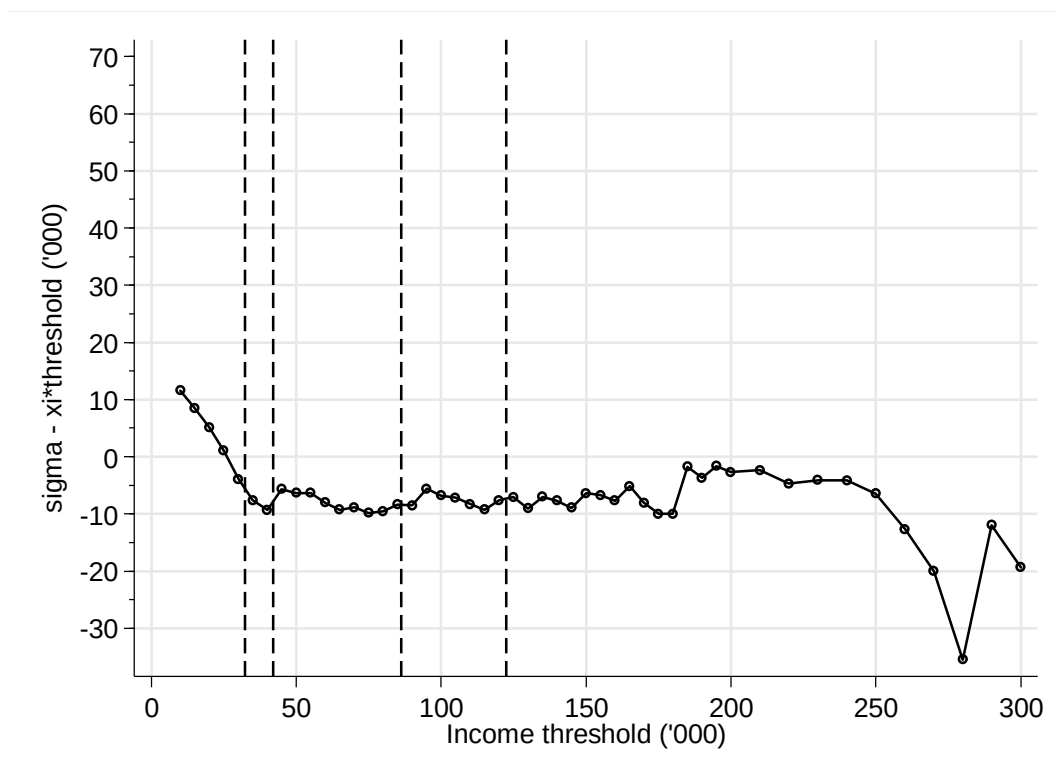
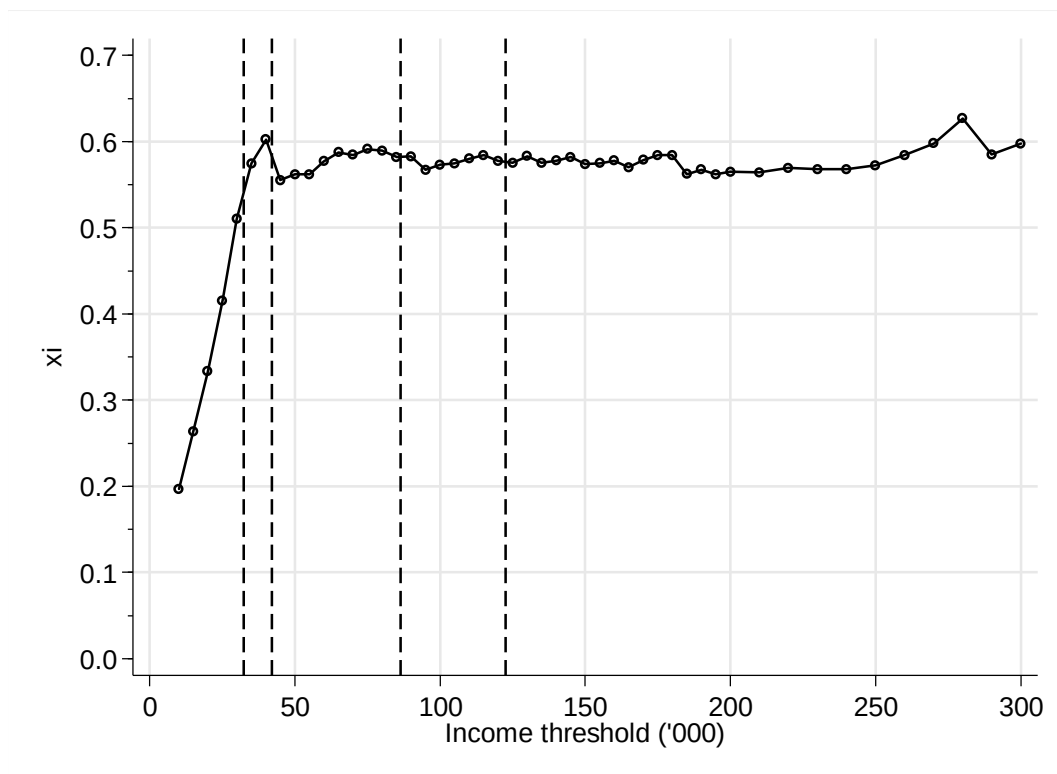
1996



Estimates of Pareto I and II parameters, by estimator, threshold, and year

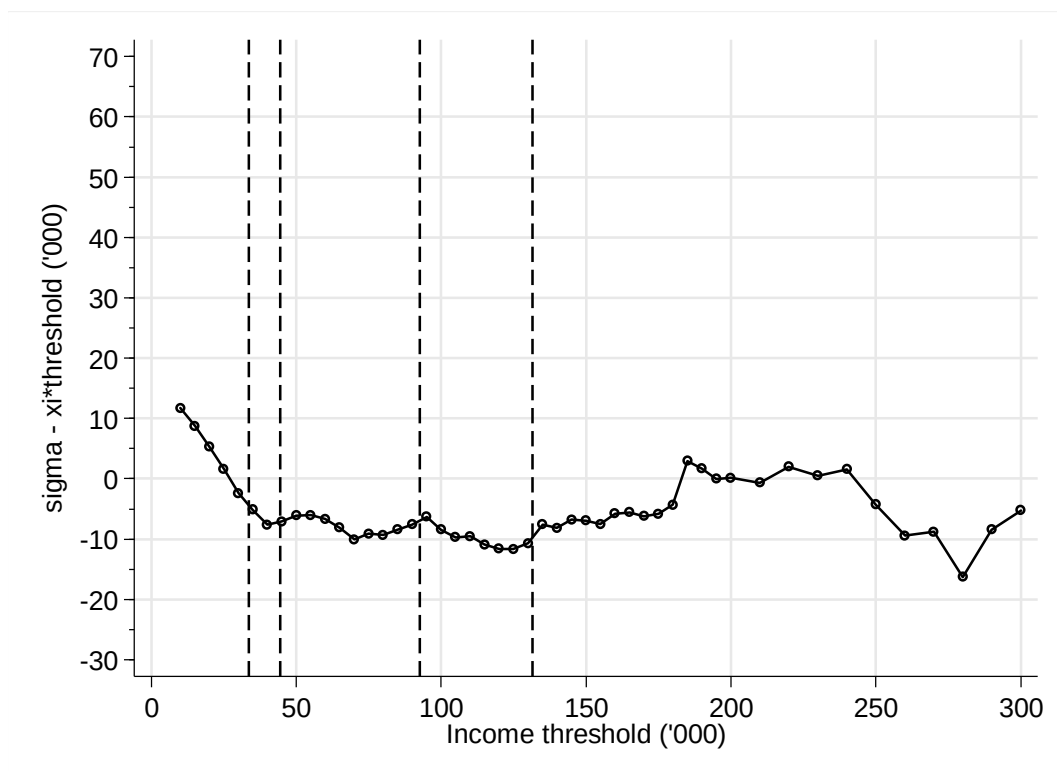
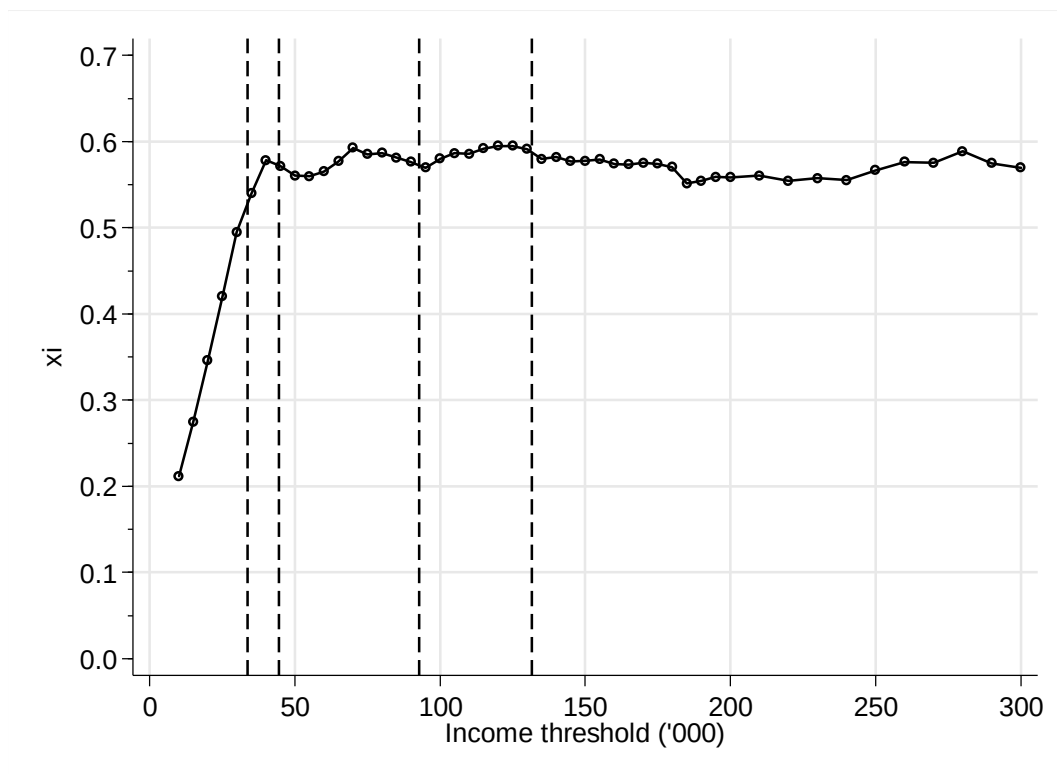
Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

1997



Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

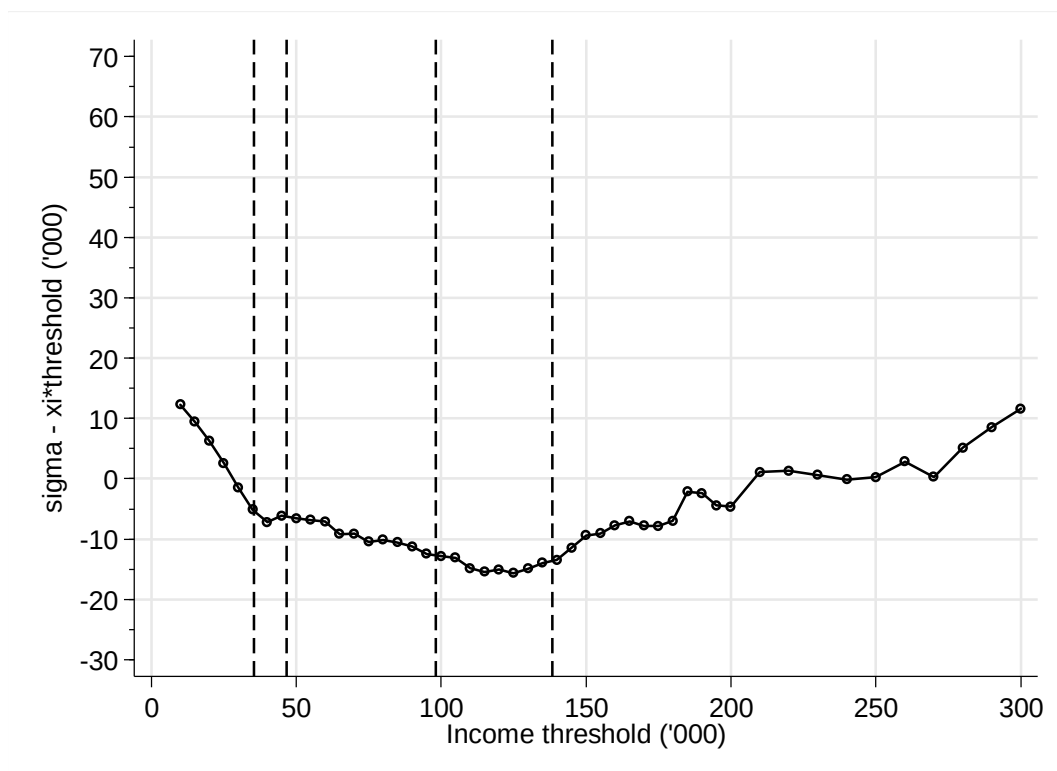
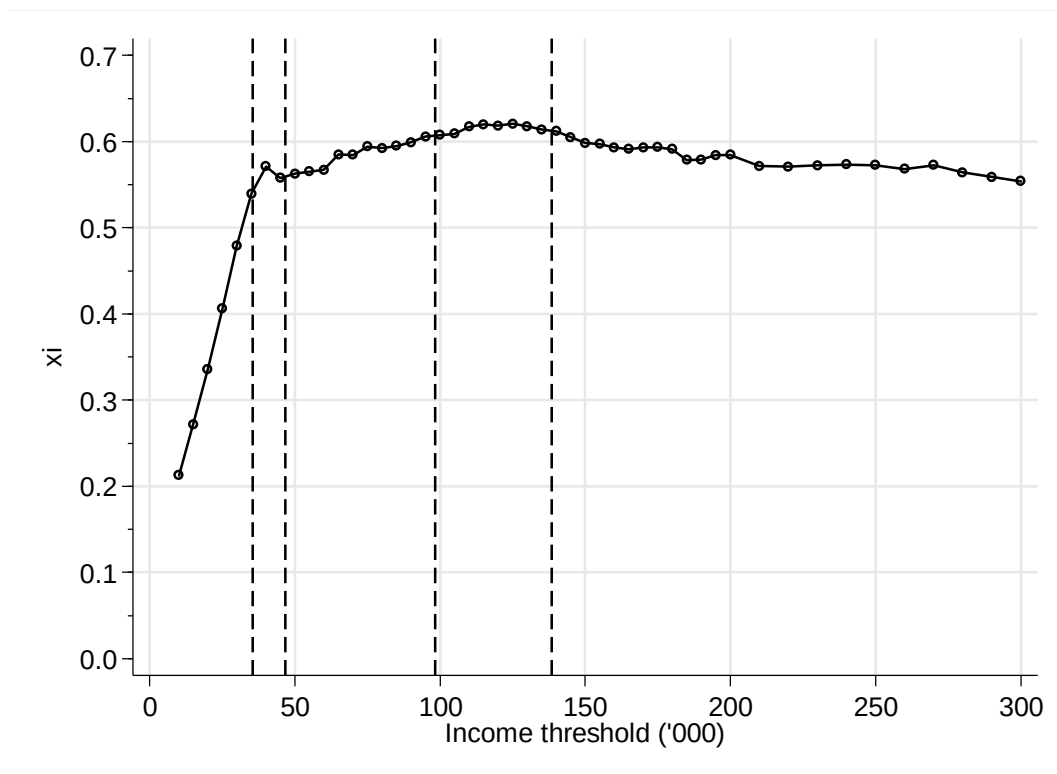
1998



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

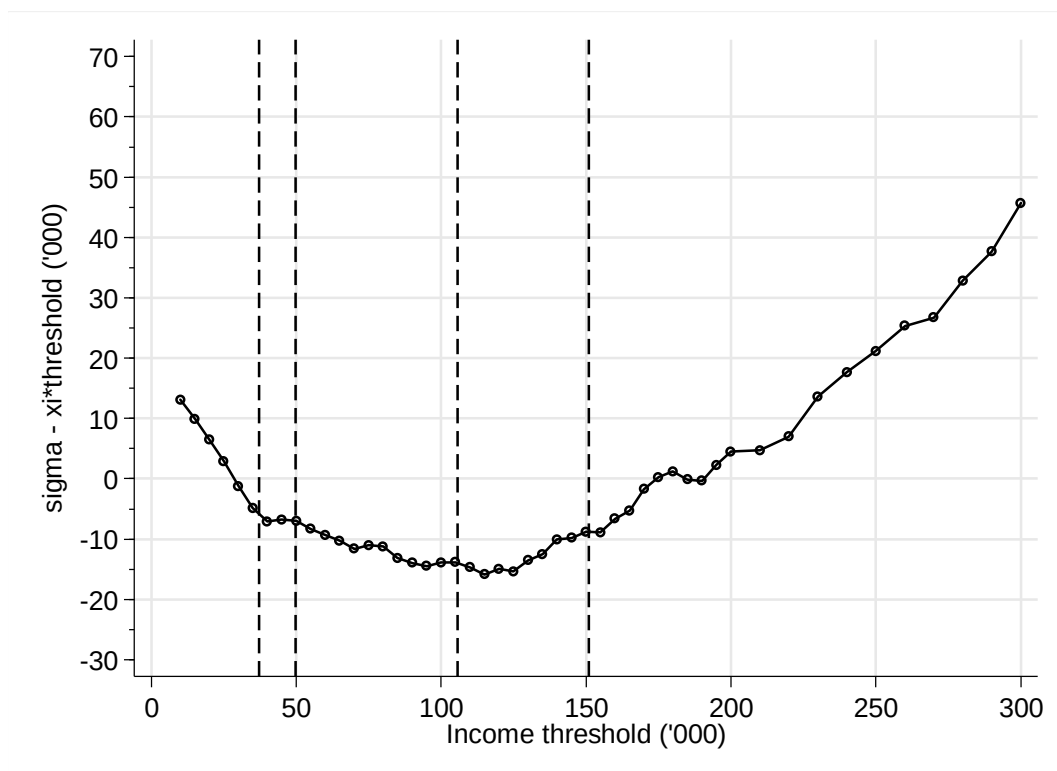
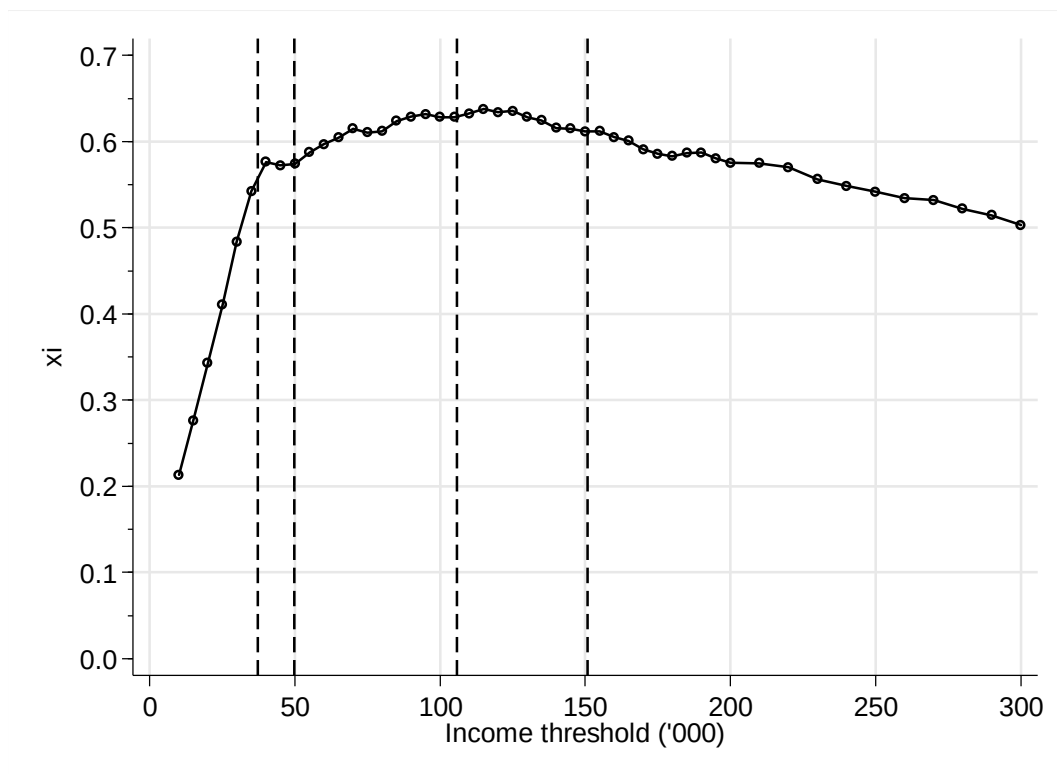
1999



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

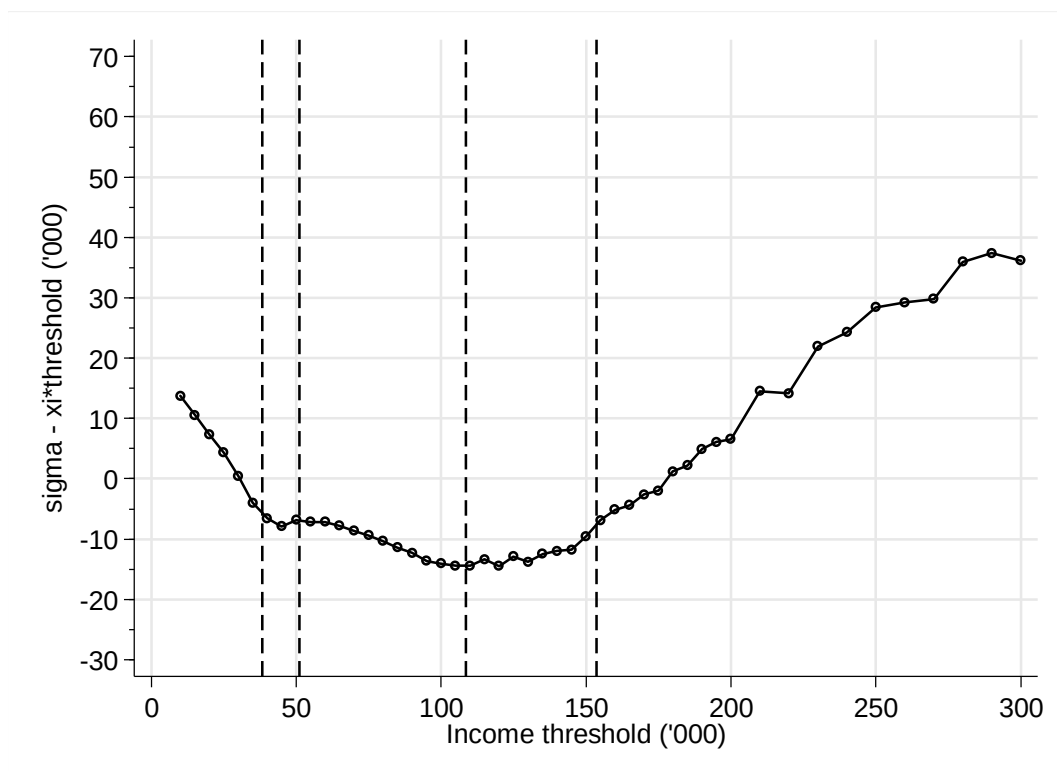
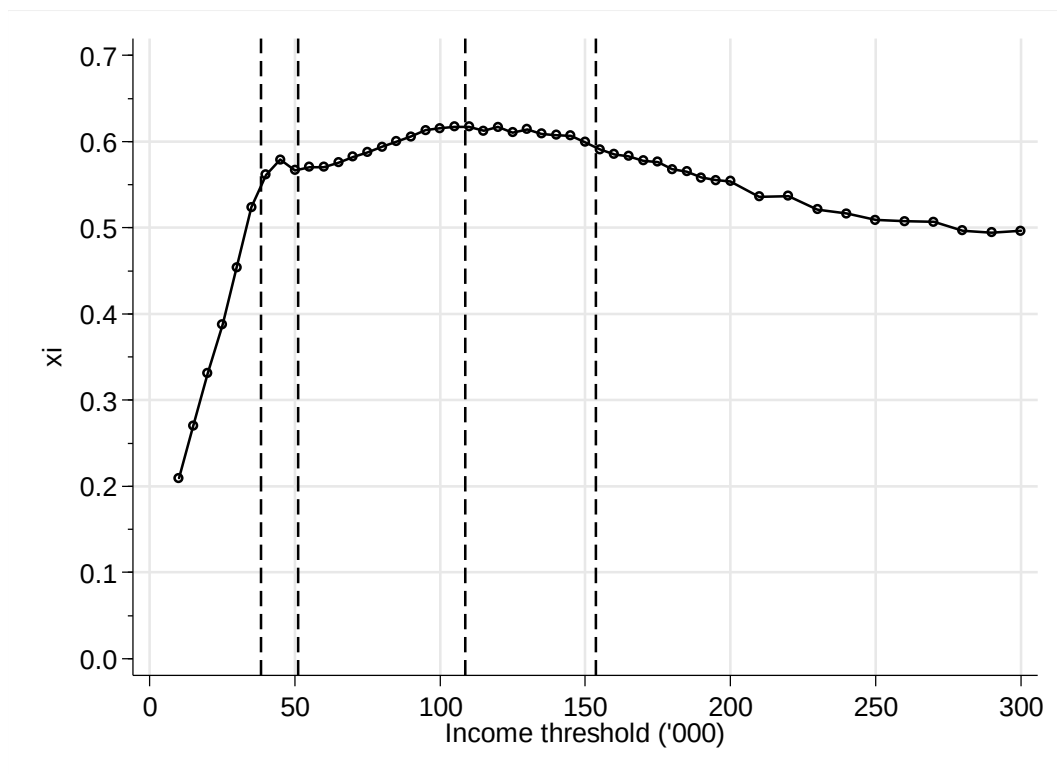
2000



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

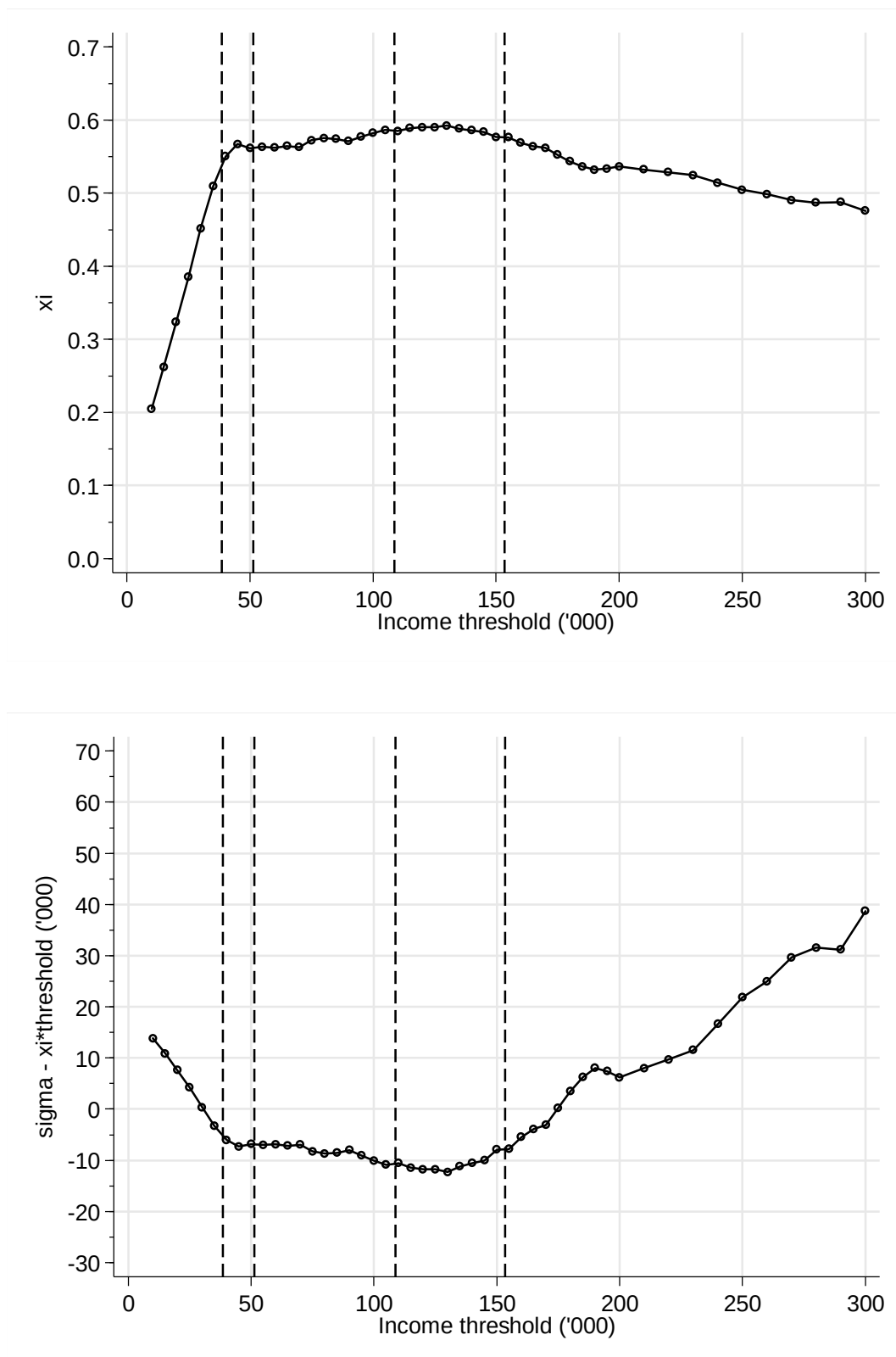
2001



Estimates of Pareto I and II parameters, by estimator, threshold, and year

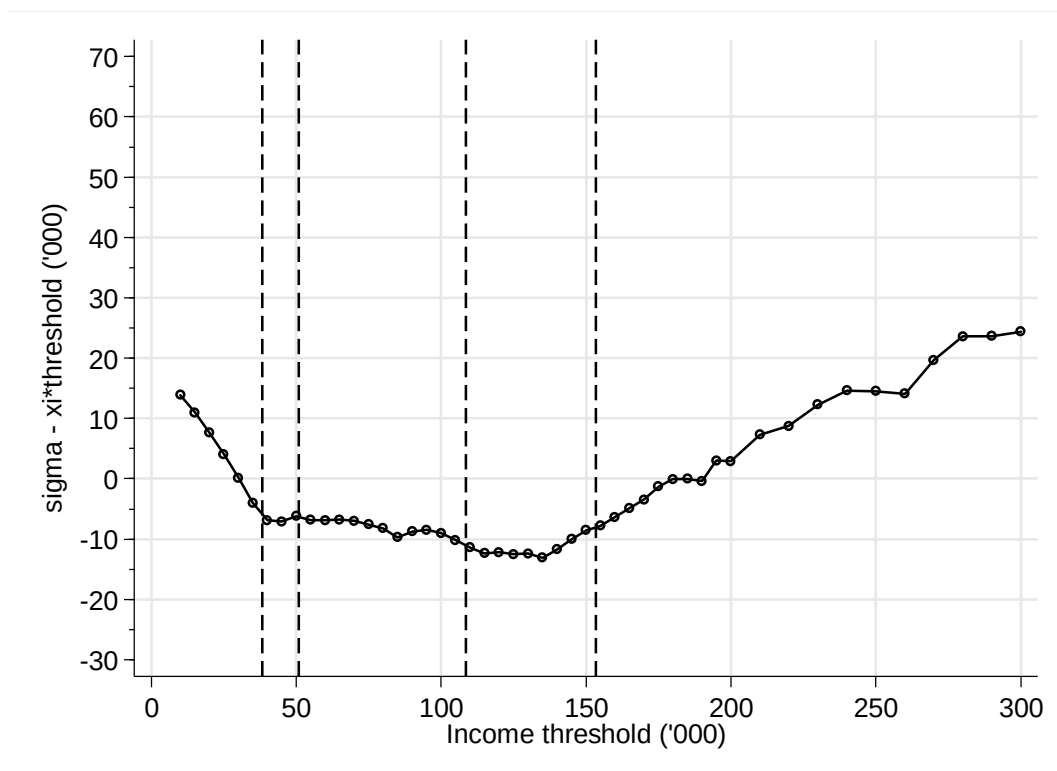
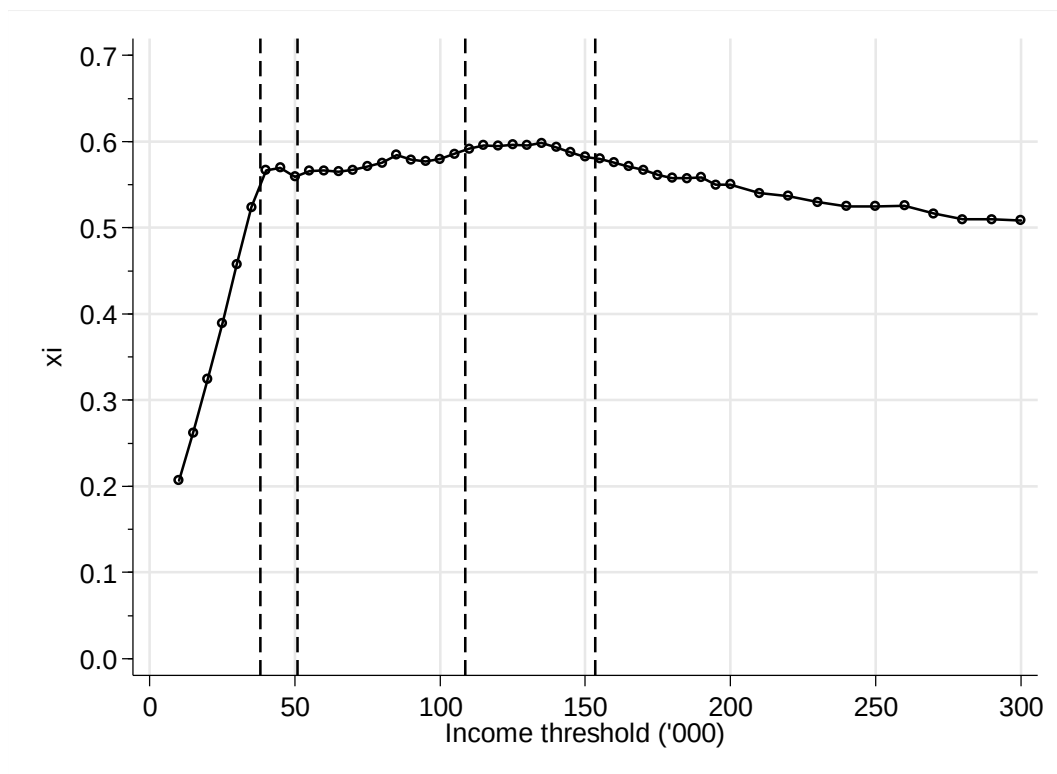
Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2002



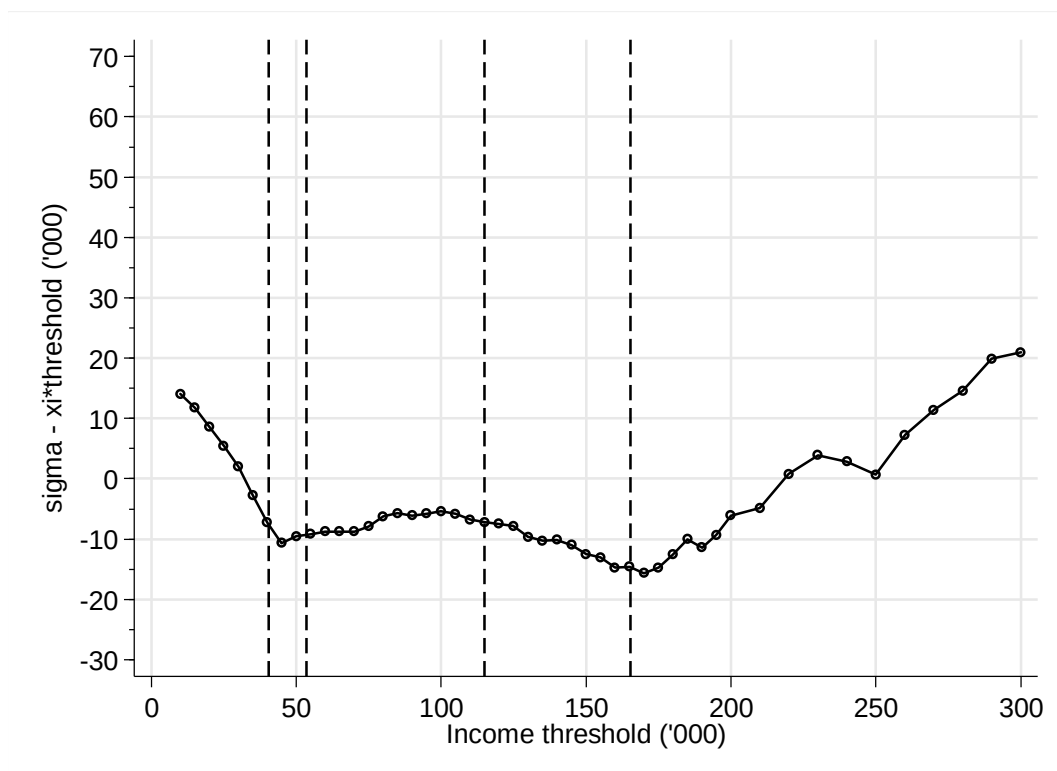
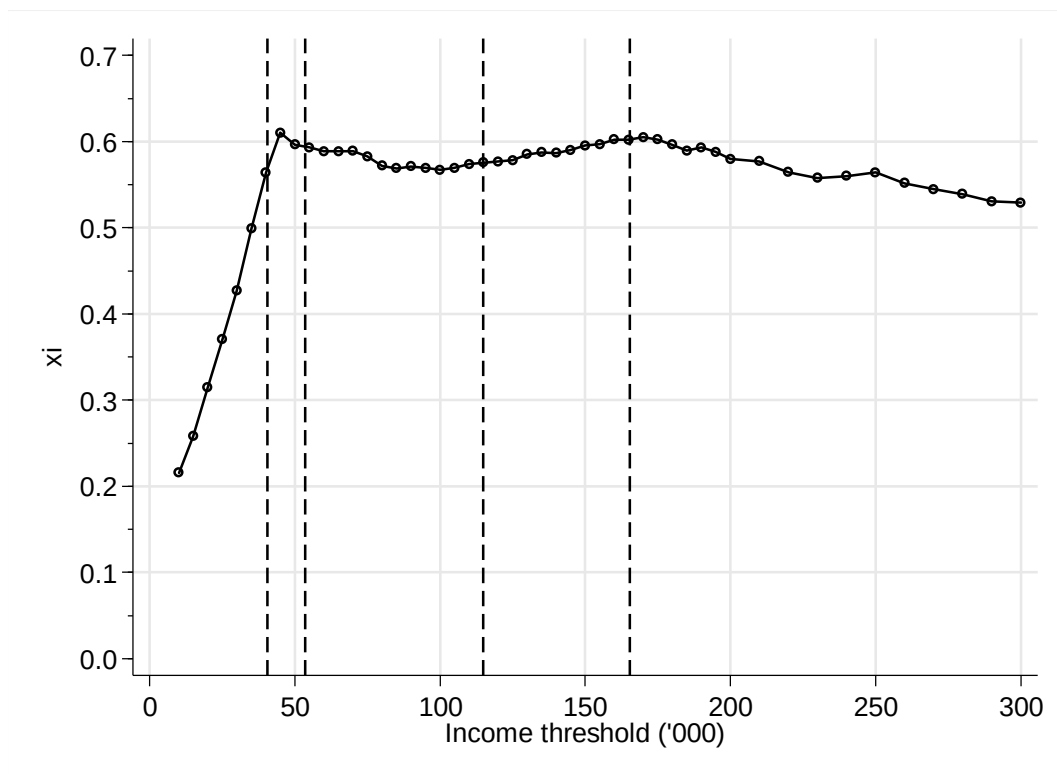
Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2003



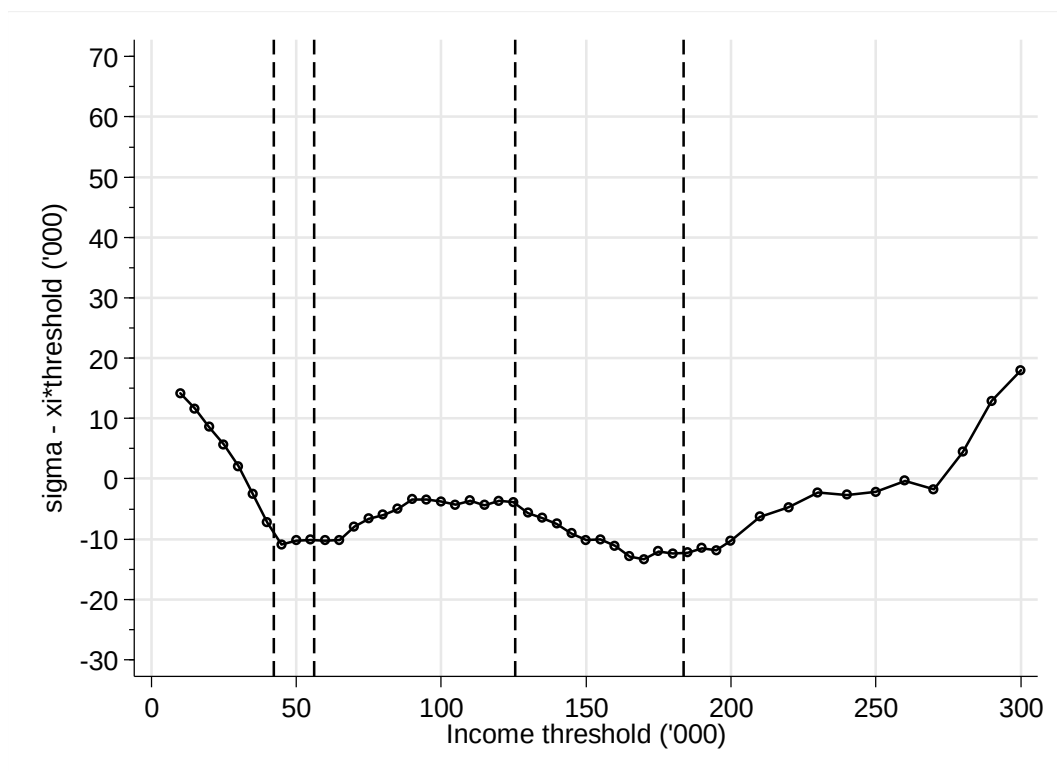
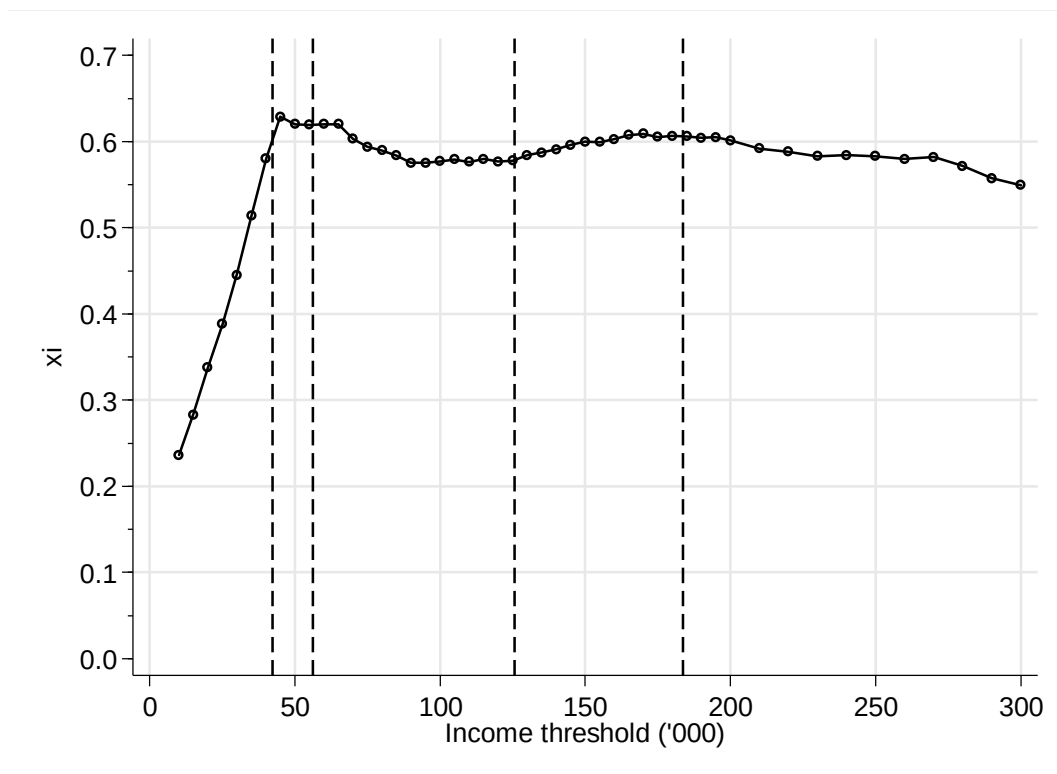
Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2004



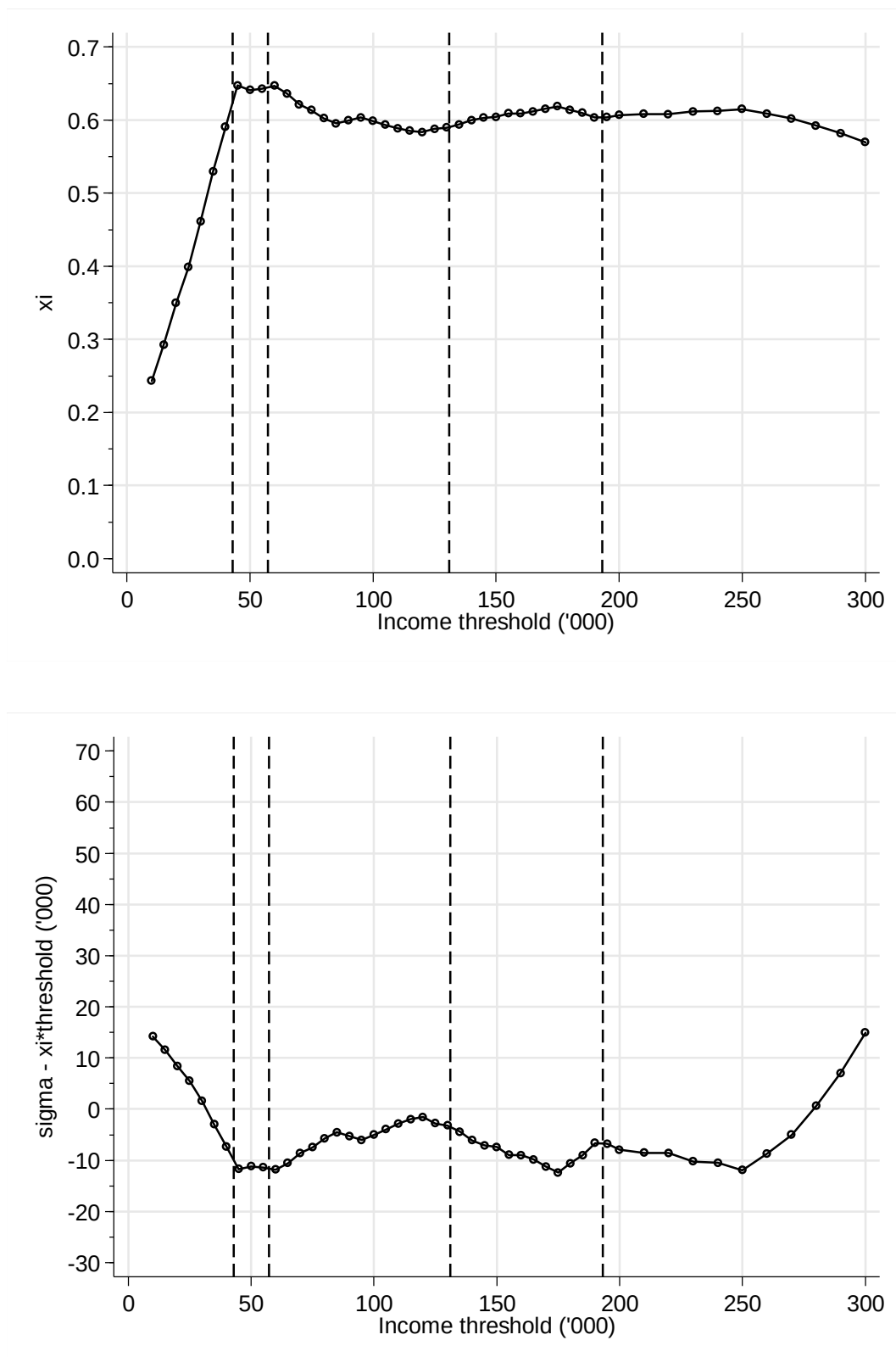
Estimates of Pareto I and II parameters, by estimator, threshold, and year Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2005



Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

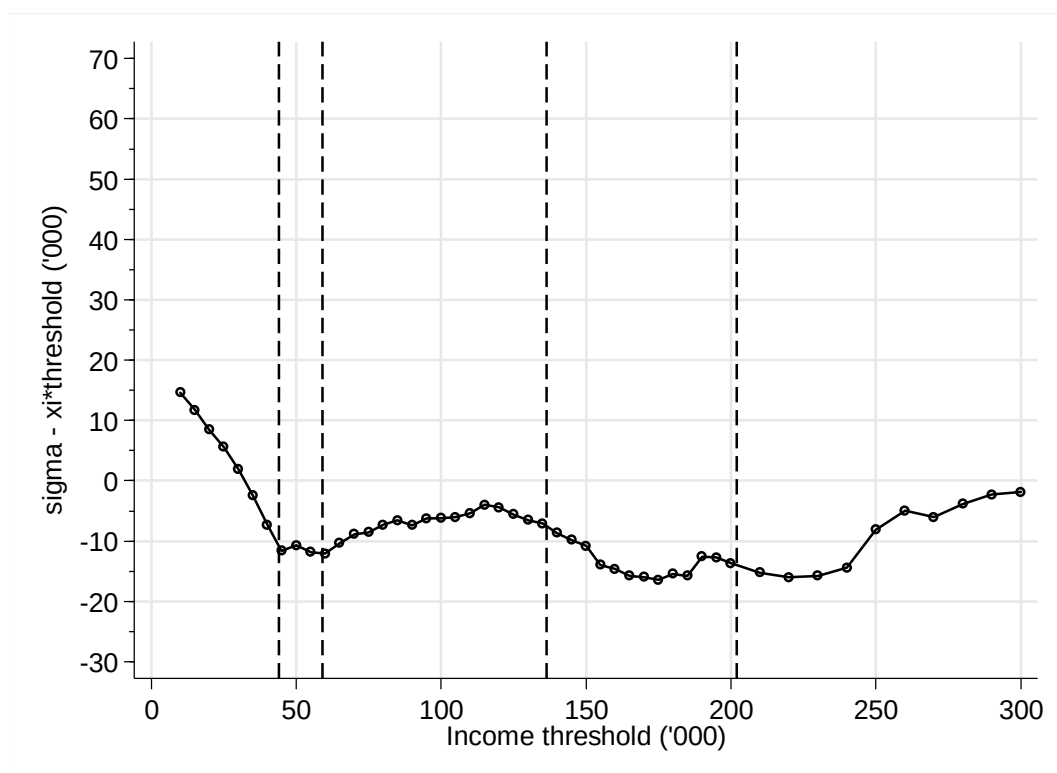
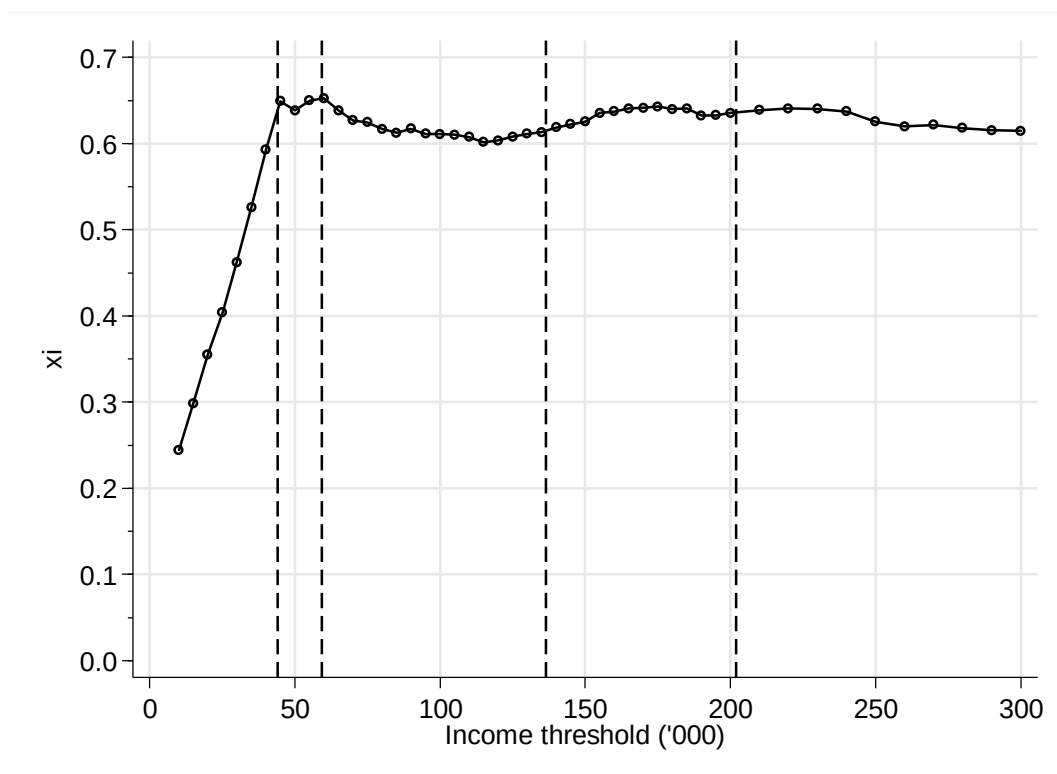
2006



Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

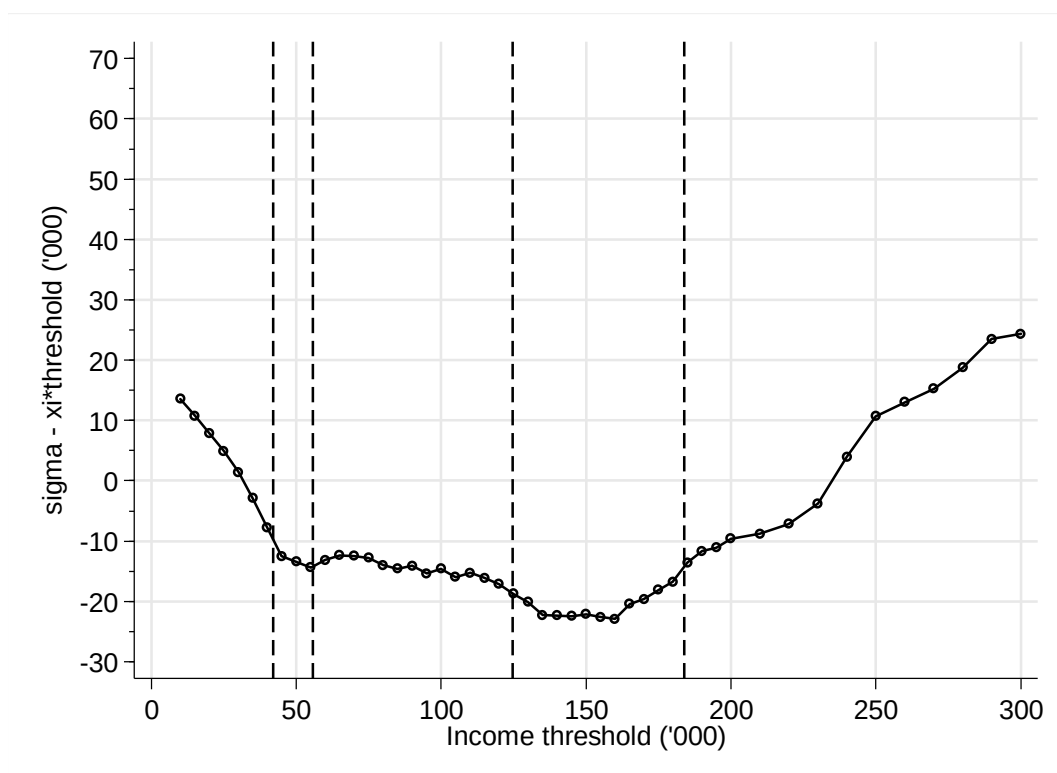
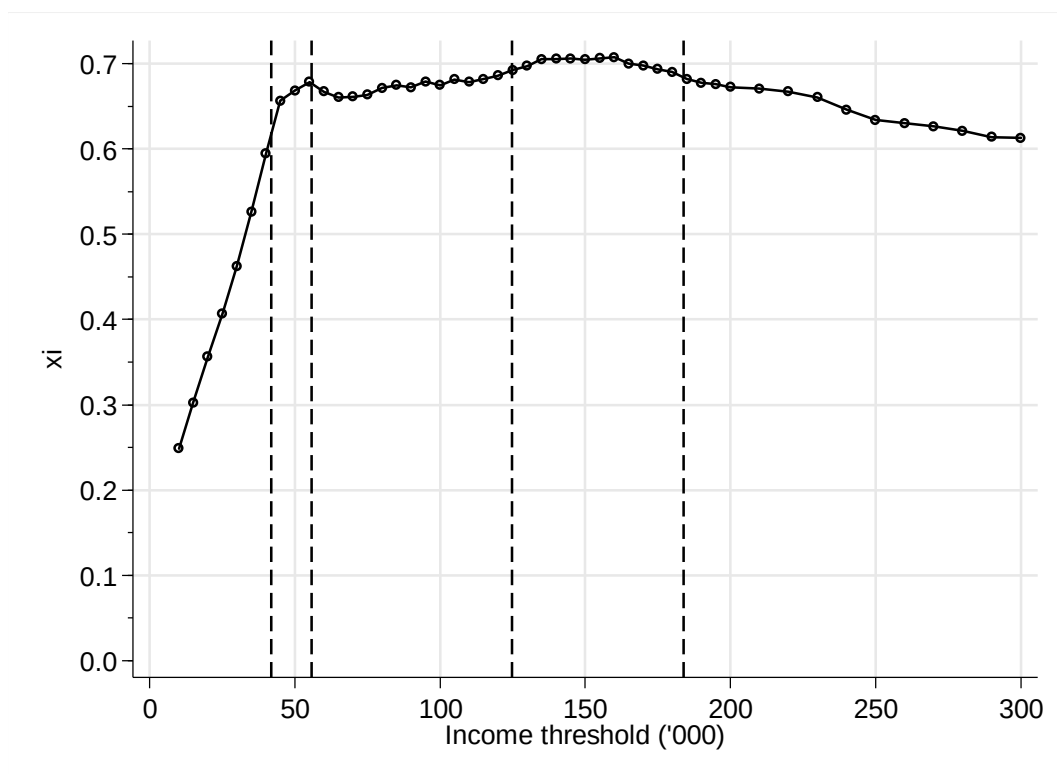
2007



Estimates of Pareto I and II parameters, by estimator, threshold, and year

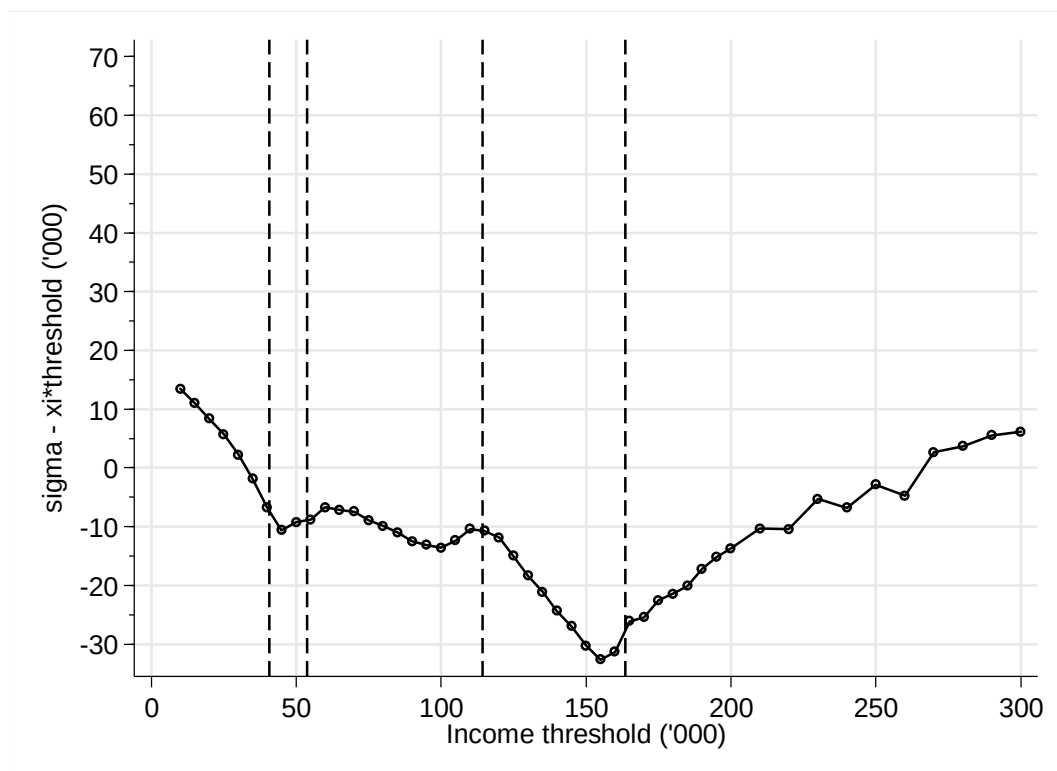
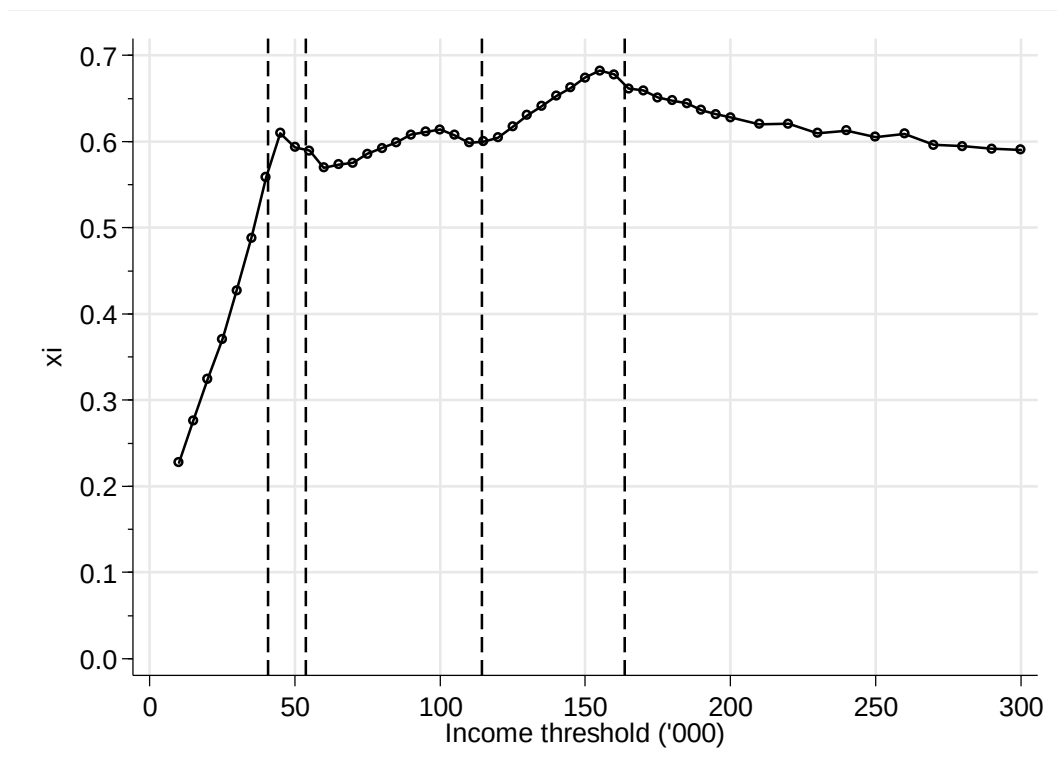
Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2009



Estimates of Pareto I and II parameters, by estimator, threshold, and year
 Vertical dashed lines show (from left to right): p_{90} , p_{95} , p_{99} , and $p_{99.5}$ (pareto10, 12, 13)

2010



Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Statistics derived from tax return data (SPI) can be identified by their suffixes:

"ml": Pareto I, ML estimator

"mlo": Pareto I, ML-OBRE estimator

"gpd": Pareto II, ML estimator

Estimates derived from the survey data (FRS-HBAI) can be identified by their suffixes:

"100": poorest 100%

"99": poorest 99%

"95": poorest 95%

"90": poorest 90%

Pareto I and Pareto II models: estimates of parameter and SEs (threshold = p99 in the survey)

year	P_R	alpha_ml	se_alph~l	alpha	se_alpha	xi	se_xi	sig	se_sig
1995	.0085792	2.114052	.1610938	2.13713	.0302296	.5578981	.1210882	36159.08	1580.968
1996	.008958	1.941077	.1106777	1.953106	.0237158	.5911263	.0878998	40597.05	1630.992
1997	.0092068	1.922345	.0644815	1.937097	.0144499	.5825368	.0542783	43944.39	1339.272
1998	.0093161	1.901082	.0444537	1.911827	.01212	.5701846	.0426144	48218.54	962.4487
1999	.0104736	1.926562	.0385267	1.94353	.010403	.6076952	.0352471	45540.21	707.3513
2000	.0098838	1.841782	.0368198	1.851902	.0101842	.6300222	.033269	52864.86	826.1099
2001	.0105668	1.895889	.0327147	1.906846	.0096336	.6161801	.0292421	50943.27	757.7493
2002	.0110572	1.934508	.032749	1.943498	.0097998	.5852064	.0293267	49929.41	664.6404
2003	.011684	1.919675	.0308324	1.929457	.0093381	.5791096	.0284916	49280.36	638.3967
2004	.0113858	1.877548	.0352881	1.885559	.0088971	.5731952	.0337069	54887.98	737.5891
2005	.0131511	1.806126	.0332827	1.811509	.0083703	.5794456	.0327035	58364.29	747.9828
2006	.0136039	1.747885	.0292037	1.751142	.0077817	.588789	.0292206	61837.9	722.4963
2007	.0142837	1.733676	.0283335	1.740903	.0073744	.6068791	.0275526	62273.52	689.8105
2009	.0118367	1.687349	.0262883	1.699297	.0074722	.6794235	.0278293	61522.91	673.331
2010	.0114712	1.874162	.0096601	1.892035	.0079147	.6023272	.0087243	53142	425.3513

Pareto I and Pareto II models: estimates of parameter and SEs (threshold = p95 in the survey)

year	P_R	alpha_ml	se_alph~l	alpha	se_alpha	xi	se_xi	sig	se_sig
1995	.0349138	2.279984	.0662971	2.304698	.0192333	.5070741	.0567215	18653.35	562.1927
1996	.0341588	2.212221	.0543265	2.251051	.016354	.5660636	.044089	19138.83	385.5171
1997	.0359085	2.111353	.0303254	2.136568	.0117075	.5546948	.0263121	20964.23	358.2605
1998	.0370005	2.092855	.0208853	2.117316	.0095908	.5605036	.0192076	22168.79	321.0485
1999	.0408321	2.105451	.0185803	2.134624	.0083306	.5618327	.0165027	22191.23	288.6397
2000	.0434905	2.076405	.0172942	2.109816	.0079736	.5853383	.0151656	22965.56	269.4211
2001	.0428005	2.079124	.0145701	2.1075	.0069765	.5715815	.0135066	23987.99	222.5532

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2002	.0436872	2.101361	.0141596	2.12654	.0068907	.5617445	.0134007	23712.9	195.8426
2003	.0424477	2.078119	.013984	2.102025	.0067782	.5645915	.0135475	24147.96	197.6735
2004	.045103	2.078425	.01557	2.104867	.0059277	.5925306	.0149922	23962.17	196.6042
2005	.0500392	2.010589	.0154738	2.035572	.0055749	.6206832	.0151286	24598.67	198.8592
2006	.0525945	1.975508	.0140596	2.00178	.0051725	.6439652	.0136899	24629.75	184.4339
2007	.0564673	1.968754	.0136294	1.997438	.0049032	.6514286	.0131492	24522.2	175.9459
2009	.0477972	1.967872	.0131282	2.009235	.0056849	.6783192	.0127761	24192.06	209.7331
2010	.0485559	2.095737	.0061848	2.128459	.0057145	.5953258	.0046749	22974	139.5351

Pareto I and Pareto II models: estimates of parameter and SEs (threshold = p90 in the survey)

year	P_R	alpha_ml	se_alph~l	alpha	se_alpha	xi	se_xi	sig	se_sig
1995	.0691512	2.485901	.0476557	2.528681	.0177262	.5234771	.0362594	12615.95	302.6853
1996	.0656919	2.389046	.0402604	2.440527	.0152448	.5588147	.0303443	13397.08	278.5533
1997	.0704028	2.361521	.0267146	2.410876	.0114455	.6046395	.0186198	13070.18	259.8923
1998	.0736046	2.280277	.0186757	2.320734	.0092436	.5776901	.0134352	14533.85	236.7898
1999	.0784177	2.262013	.0165632	2.301965	.0080251	.5720381	.0121477	15101.62	225.8878
2000	.0825183	2.205624	.0144234	2.246422	.0076205	.577918	.0111061	16094.19	203.4729
2001	.0813434	2.223621	.0125648	2.262344	.0064534	.5728109	.0095682	16575.5	174.8562
2002	.0842385	2.235875	.0108814	2.270374	.0061525	.5555899	.0089394	16546.56	131.9748
2003	.0798965	2.221256	.0108645	2.256219	.0060503	.5750315	.0091686	16594.54	132.5893
2004	.0898392	2.278487	.0116492	2.322265	.0052906	.5893388	.0094923	15934.14	115.237
2005	.0972577	2.196848	.0115848	2.238672	.0049804	.6120697	.0098175	16503.35	117.6843
2006	.0975634	2.152272	.0108552	2.194793	.0046516	.6301144	.0092303	16940.74	114.365
2007	.1064382	2.131012	.0102924	2.173568	.0044181	.6218958	.0088186	17108.16	109.6708
2009	.0966601	2.179464	.0096267	2.238696	.0050993	.6327745	.0080159	16274.68	105.4642
2010	.0979533	2.2774	.0054083	2.321593	.0050355	.5717461	.003275	15703.49	77.03366

Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = p99 in the survey)

year	mean99	mean100	Mall_mlo	Mall_gpd	mean_mlo	mean_gpd	S_R_mlo	S_R_gpd
1995	16464.41	17972.05	17667.27	17740.02	156670.8	165150.9	.0760791	.0798681
1996	17187.34	18715.98	18596.3	18685.52	174471.5	184431.2	.0840449	.0884183
1997	17460.8	19316.95	19012.79	19097.77	186030.3	195260	.0900841	.0941328
1998	18041.53	19974.66	19745.78	19811.57	200975.8	208037.8	.0948213	.0978272
1999	18694.7	20803.34	20571.16	20720.74	197855.3	212137	.1007361	.1072278
2000	19443.25	21823.33	21537.45	21715.11	231325.4	249299.6	.1061583	.1134709
2001	19996.4	22460.36	22134.57	22304.95	222344.8	238468.4	.1061446	.1129723
2002	19888.21	22312.71	22026.4	22144.05	213263.7	223903.5	.1070578	.1118018

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2003	20231.44	22500.62	22429.13	22535.63	208325	217440.2	.1085227	.1127357
2004	20654.14	23094.68	23021.86	23105.67	228608.5	235968.9	.1130617	.1162786
2005	20681.77	23168.63	23585.69	23657.61	241493.3	246962.1	.1346539	.1372846
2006	20773.34	23421.43	23976.51	24031.7	256232.9	260289.5	.1453828	.1473454
2007	20730.44	23666.25	24169.21	24286.49	261478.8	269689.7	.1545302	.1586131
2009	20928.21	24069.76	23942.82	24294.63	275611.5	305333.4	.1362552	.148763
2010	20128.06	22703.92	22496	22655.37	226552.6	240444.9	.1155242	.1217458

Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = p95 in the survey)

year	mean95	mean100	Mall_mlo	Mall_gpd	mean_mlo	mean_gpd	S_R_mlo	S_R_gpd
1995	14657.58	17972.05	16958.3	17059.19	80554.7	83444.4	.1658462	.1707795
1996	15309.6	18715.98	17713.66	17919.95	85688.55	91727.67	.1652408	.1748503
1997	15510.47	19316.95	18199.29	18370.65	90390.54	95162.46	.1783467	.1860107
1998	15961.72	19974.66	18910.96	19105.47	95669.81	100926.7	.1871842	.1954593
1999	16627.54	20803.34	19871.36	20101.64	96070.52	101710.3	.1974078	.2066022
2000	17196.16	21823.33	20834.19	21164.05	100847.3	108432	.2105144	.2228194
2001	17716.19	22460.36	21414.75	21696.49	104130.1	110712.7	.2081193	.2184024
2002	17648.29	22312.71	21363.55	21617.7	102690.8	108508.2	.2099965	.2192841
2003	18000.59	22500.62	21660.79	21910.19	104229.2	110104.5	.2042532	.2133109
2004	18348.18	23094.68	22319.27	22691.87	106393.3	114654.2	.2150003	.2278898
2005	18368.74	23168.63	22973.3	23504.75	110387.9	121008.4	.240441	.2576147
2006	18464.66	23421.43	23389.46	24082.5	112101.7	125278.6	.2520766	.2736001
2007	18361.62	23666.25	23658.03	24459.86	112157.6	126357.4	.2676992	.291705
2009	18502.72	24069.76	23027.02	23929.71	113158.8	132044.6	.2348839	.2637459
2010	17806.01	22703.92	21921.53	22338.35	102564.4	111148.8	.2271786	.2415992

Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = p90 in the survey)

year	mean90	mean100	Mall_mlo	Mall_gpd	mean_mlo	mean_gpd	S_R_mlo	S_R_gpd
1995	13181.87	17972.05	16336.85	16559.47	58806.33	62025.6	.2489173	.2590145
1996	13774.5	18715.98	16990.65	17296.88	62732.61	67394.16	.2425465	.2559566
1997	13962.58	19316.95	17468.94	17934.25	63766.82	70376.08	.2569912	.2762688
1998	14359.92	19974.66	18254.58	18654.05	67273.27	72700.47	.2712538	.2868595
1999	15000.79	20803.34	19242.16	19655.8	69087.77	74362.55	.2815537	.2966726
2000	15520.13	21823.33	20243.56	20717.28	72761.04	78501.77	.2965941	.312678
2001	15963.92	22460.36	20766.91	21226.14	75009.84	80655.35	.2938112	.3090895
2002	15916.24	22312.71	20802.14	21195.99	73916.98	78592.44	.2993278	.3123473

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2003	16253.87	22500.62	20972.4	21425.34	75311.94	80981.08	.2869084	.3019835
2004	16577.8	23094.68	21787.9	22388.9	74571.41	81261.09	.3074842	.3260738
2005	16581.99	23168.63	22473.37	23258.88	77156.92	85233.48	.3339111	.3564065
2006	16662.82	23421.43	22803.63	23733.43	79604.52	89134.73	.3405813	.3664153
2007	16574.89	23666.25	23235.19	24175.34	79149.23	87982.01	.3625751	.3873637
2009	16701.05	24069.76	22522.35	23484.72	76925.5	86881.7	.3301443	.3575939
2010	16080.47	22703.92	21566.41	22116.75	72086.18	77704.52	.3274108	.344147

Pareto I and Pareto II models: estimates of Gini coefficients, total (G), between-group (GB), among the Rich (threshold = p99 in the survey)

year	gini99	gini100	G_mlo	G_gpd	GB_mlo	GB_gpd	gini_mlo	gini_gpd
1995	.4321555	.4708673	.4635513	.4657528	.0674999	.0712889	.3054124	.3434142
1996	.4304282	.4681075	.4660671	.4686185	.0750868	.0794603	.3440906	.3821193
1997	.4300135	.4756559	.4688395	.4712043	.0808772	.0849259	.3479235	.3803295
1998	.4318592	.4779206	.473086	.4748367	.0855052	.0885111	.354151	.3771464
1999	.4197488	.469378	.4641395	.4680108	.0902625	.0967542	.3463731	.3930254
2000	.4237607	.477579	.4716938	.4760194	.0962745	.1035871	.3698494	.4183659
2001	.4229882	.4772919	.4700716	.4741232	.0955779	.1024055	.3554049	.4022064
2002	.4191605	.4731106	.4665582	.4693954	.0960006	.1007446	.3463809	.3799885
2003	.4146416	.4647328	.4626068	.465149	.0968387	.1010517	.3497832	.3789697
2004	.4137261	.4669528	.4649119	.4668542	.1016759	.1048928	.3608651	.3819696
2005	.4160367	.4692621	.477459	.4790488	.1215028	.1241335	.3812402	.3955823
2006	.4143978	.471081	.4819029	.4830935	.1317789	.1337414	.399635	.4093939
2007	.4169575	.4795624	.4886256	.4910962	.1402466	.1443294	.4029322	.4216229
2009	.414584	.4814717	.478947	.4864964	.1244185	.1369263	.4169108	.4759566
2010	.4134066	.4705779	.4659827	.469741	.104053	.1102745	.3591863	.3976407

Pareto I and Pareto II models: estimates of Gini coefficients, total (G), between-group (GB), among the Rich (threshold = p95 in the survey)

year	gini95	gini100	G_mlo	G_gpd	GB_mlo	GB_gpd	gini_mlo	gini_gpd
1995	.3997137	.4708673	.4543183	.4575555	.1309324	.1358657	.2770547	.3037664
1996	.398096	.4681075	.4536565	.4599622	.131082	.1406915	.2855428	.3353196
1997	.3958455	.4756559	.4579634	.4630323	.1424383	.1501023	.3055175	.3422914
1998	.3953609	.4779206	.4617901	.4672844	.1501837	.1584587	.3091542	.3471923
1999	.3844032	.469378	.4549628	.4612224	.1565757	.1657701	.3058807	.346232
2000	.3856301	.477579	.4610763	.4694977	.1670239	.1793289	.3105944	.3610545
2001	.3857013	.4772919	.4604463	.4674719	.1653188	.1756019	.3110419	.3540565

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2002	.3823379	.4731106	.4579822	.4643751	.1663093	.1755969	.3074009	.3467038
2003	.3786189	.4647328	.4530074	.4592526	.1618055	.1708632	.312105	.3509158
2004	.3763697	.4669528	.4550429	.4640245	.1698973	.1827869	.3115523	.3644199
2005	.3791531	.4692621	.4678978	.4799768	.1904018	.2075754	.3256116	.3885349
2006	.3776759	.471081	.4715122	.48678	.1994821	.2210055	.3329382	.4072113
2007	.3783844	.4795624	.477724	.4949123	.211232	.2352378	.3339036	.4128506
2009	.3743414	.4814717	.4635308	.4838181	.1870867	.2159487	.3312938	.4309236
2010	.3734187	.4705779	.4565831	.466759	.1786228	.1930433	.3070388	.3636224

Pareto I and Pareto II models: estimates of Gini coefficients, total (G), between-group (GB), among the Rich (threshold = p90 in the survey)

year	gini90	gini100	G_mlo	G_gpd	GB_mlo	GB_gpd	gini_mlo	gini_gpd
1995	.3789609	.4708673	.448957	.4564277	.1797662	.1898633	.2464656	.2890845
1996	.3774397	.4681075	.4480722	.4579047	.1768547	.1902647	.257662	.3126417
1997	.3749504	.4756559	.4503004	.4646724	.1865884	.205866	.2616601	.3366488
1998	.3737798	.4779206	.4554734	.4672199	.1976492	.2132549	.2746145	.3328265
1999	.362718	.469378	.4494206	.4610905	.203136	.218255	.2774748	.3323132
2000	.3645655	.477579	.4563595	.4688694	.2140757	.2301596	.2862997	.341561
2001	.3634131	.4772919	.4550109	.4668829	.2124678	.2277462	.283713	.337079
2002	.3599685	.4731106	.4531839	.4634201	.2150893	.2281088	.2824262	.3279839
2003	.3563949	.4647328	.4473753	.4591453	.2070119	.2220871	.2847025	.3383915
2004	.3540265	.4669528	.4483678	.4633034	.217645	.2362346	.2743838	.3384852
2005	.3569149	.4692621	.4606078	.4789815	.2366533	.2591487	.2875758	.3596172
2006	.3549412	.471081	.4640406	.4852055	.2430179	.2688518	.2950213	.3750883
2007	.3559613	.4795624	.4704146	.491175	.2561369	.2809255	.2987629	.3731778
2009	.351203	.4814717	.4551767	.4776366	.2334842	.2609338	.2875718	.3730879
2010	.3503199	.4705779	.4508021	.4645845	.2294575	.2461937	.274485	.3304024

Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p99 in the survey)

year	mld99	mld100	L_mlo	L_gpd	LB_mlo	LB_gpd	ge0_mlo	ge0_gpd
1995	.4272833	.4881696	.4762005	.480323	.0511841	.0548413	.1630389	.217282
1996	.42893	.4878246	.4849565	.4898164	.0580284	.0623173	.2054452	.2691835
1997	.4233427	.4960698	.4847484	.489282	.0633707	.0673843	.2099224	.266396
1998	.4207649	.4948138	.4866759	.4900915	.0678064	.070811	.2173044	.2614269
1999	.3655647	.4436722	.4348551	.4422211	.0709396	.0774547	.2081053	.2893426
2000	.3778259	.4641108	.4542472	.4626758	.077818	.0852932	.2365117	.3329697

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2001	.3781143	.4651522	.4525674	.4604222	.0761364	.0830644	.2188069	.3065211
2002	.3714052	.4570286	.4454822	.4509524	.0758826	.0806712	.2081145	.2697532
2003	.3612774	.4391674	.4354116	.4402836	.075877	.0801138	.2121128	.266479
2004	.3627216	.4455854	.4423144	.4461065	.0811562	.0844289	.2254138	.2710199
2005	.3700412	.4531913	.467543	.4708159	.0990674	.1018176	.2509941	.2907401
2006	.3651884	.4538513	.4731922	.4757855	.1092256	.111311	.2753729	.3127077
2007	.3739877	.4735996	.4899141	.4951009	.1172707	.1216699	.2798748	.3350168
2009	.3694542	.4763043	.472682	.4877432	.1040568	.1174314	.2994156	.4419066
2010	.3610908	.4505028	.4429634	.4501919	.0834524	.0898287	.2233713	.297654

Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p95 in the survey)

year	mld95	mld100	L_mlo	L_gpd	LB_mlo	LB_gpd	ge0_mlo	ge0_gpd
1995	.3843256	.4881696	.4619308	.4677333	.0863073	.0910085	.1350818	.1666259
1996	.3866238	.4878246	.4653344	.4767284	.0870265	.0962786	.1431763	.205882
1997	.3787588	.4960698	.4675911	.4768485	.0965746	.1040986	.1631473	.2114201
1998	.3728894	.4948138	.4685597	.4786943	.1032912	.1115448	.1669239	.2177587
1999	.3197096	.4436722	.4199312	.4313075	.106599	.1157917	.1635226	.2170001
2000	.3282733	.4641108	.4362996	.4518549	.1149779	.127533	.1684314	.2374175
2001	.3297572	.4651522	.4366668	.4496212	.1137944	.1242415	.1689013	.2274824
2002	.3242906	.4570286	.4314469	.4431697	.1141109	.1235297	.1650977	.2178399
2003	.3157693	.4391674	.4201358	.4314997	.1105532	.1196733	.1700201	.2228823
2004	.3159965	.4455854	.426033	.4425297	.1166467	.12983	.1694379	.2429008
2005	.3235898	.4531913	.4505777	.4734732	.1339448	.1522178	.1845605	.2769375
2006	.319093	.4538513	.4540154	.4833029	.1415699	.1649246	.1927029	.3055039
2007	.3255582	.4735996	.4693717	.5027905	.1512541	.1778534	.1937893	.314559
2009	.3195554	.4763043	.4455998	.4840802	.1321957	.1632707	.1908597	.3457945
2010	.3114119	.4505028	.4272032	.4459029	.1229139	.1378469	.1647218	.2422961

Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p90 in the survey)

year	mld90	mld100	L_mlo	L_gpd	LB_mlo	LB_gpd	ge0_mlo	ge0_gpd
1995	.3590096	.4881696	.4528123	.4659188	.111172	.1210211	.1078295	.1549371
1996	.3619172	.4878246	.4561094	.473469	.1102512	.1234053	.1174575	.1814756
1997	.3539031	.4960698	.4546175	.4804279	.117112	.1364567	.1209924	.2128305
1998	.347151	.4948138	.4576799	.4788876	.1263063	.1422428	.1327977	.2044133
1999	.2932615	.4436722	.4101242	.430922	.1292358	.1447348	.1354769	.2030483

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

2000	.3026329	.4641108	.4277395	.4503588	.1382041	.1550689	.1439094	.2136465
2001	.3030414	.4651522	.4270621	.4484712	.1371682	.1531378	.1414117	.2082817
2002	.297941	.4570286	.4230101	.4413288	.1383589	.1519486	.1401772	.1963156
2003	.2898809	.4391674	.4104653	.4314382	.1323704	.147939	.1423646	.2100061
2004	.2905196	.4455854	.4145304	.4412052	.1381997	.157692	.1325828	.2125309
2005	.2980318	.4531913	.4376406	.4714797	.1544778	.1791513	.1451496	.2393896
2006	.2931317	.4538513	.4405715	.4800546	.1611612	.1900938	.1524909	.2606306
2007	.3001172	.4735996	.4561727	.4952652	.1713686	.1997727	.1562483	.2566671
2009	.2939922	.4763043	.4310059	.4720637	.1514012	.1814785	.1451457	.2587458
2010	.2856084	.4505028	.4172048	.4417643	.1465766	.164423	.132677	.20121

Pareto I and Pareto II models: estimates of Theil, total (T), between-group (TB), among the Rich (threshold = p99 in the survey)

year	theil99	theil100	T_mlo	T_gpd	TB_mlo	TB_gpd	ge1_mlo	ge1_gpd
1995	.3097924	.4247697	.406015	.3861249	.1008894	.1095265	.2484504	.
1996	.3070809	.4184593	.4251463	.3781433	.1159919	.1262502	.3317514	.
1997	.3074812	.4509146	.4384786	.3869657	.1279809	.1376586	.3409663	.
1998	.3110523	.4611815	.4536504	.3977029	.1383044	.1456023	.3563347	.
1999	.2916681	.4511849	.438273	.3646634	.1420164	.1575606	.3372167	.
2000	.2992969	.4777798	.4702946	.3530293	.1605889	.1789736	.3973471	.
2001	.2980739	.4790189	.4586726	.3622916	.1540798	.1707666	.3594896	.
2002	.2923957	.4706927	.4490657	.378057	.1518696	.1632405	.3372355	.
2003	.2852631	.4419856	.4417379	.3728273	.1499374	.1598523	.3455037	.
2004	.2851863	.4518449	.4584501	.3781656	.1632824	.1710672	.3734696	.
2005	.2883504	.4541919	.5068599	.3900592	.1995365	.2060313	.4292523	.
2006	.2860975	.4628327	.5368545	.3841645	.2218578	.226804	.4848777	.
2007	.2908952	.4915753	.5607189	.3749323	.2382193	.2486316	.4954144	.
2009	.2885957	.5100929	.5398196	.2605883	.2166809	.2495731	.5421128	.
2010	.2865068	.4614535	.4644972	.3662071	.1684455	.1836936	.3691292	.

Pareto I and Pareto II models: estimates of Theil, total (T), between-group (TB), among the Rich (threshold = p95 in the survey)

year	theil95	theil100	T_mlo	T_gpd	TB_mlo	TB_gpd	ge1_mlo	ge1_gpd
1995	.2611008	.4247697	.3873488	.3863349	.1367988	.1452923	.197483	.
1996	.2589458	.4184593	.3899024	.3787767	.1387281	.1556076	.2119147	.
1997	.2561327	.4509146	.4092895	.3895776	.1544906	.1681975	.2486543	.
1998	.2553305	.4611815	.4210593	.3944572	.1656442	.1806849	.2557822	.

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

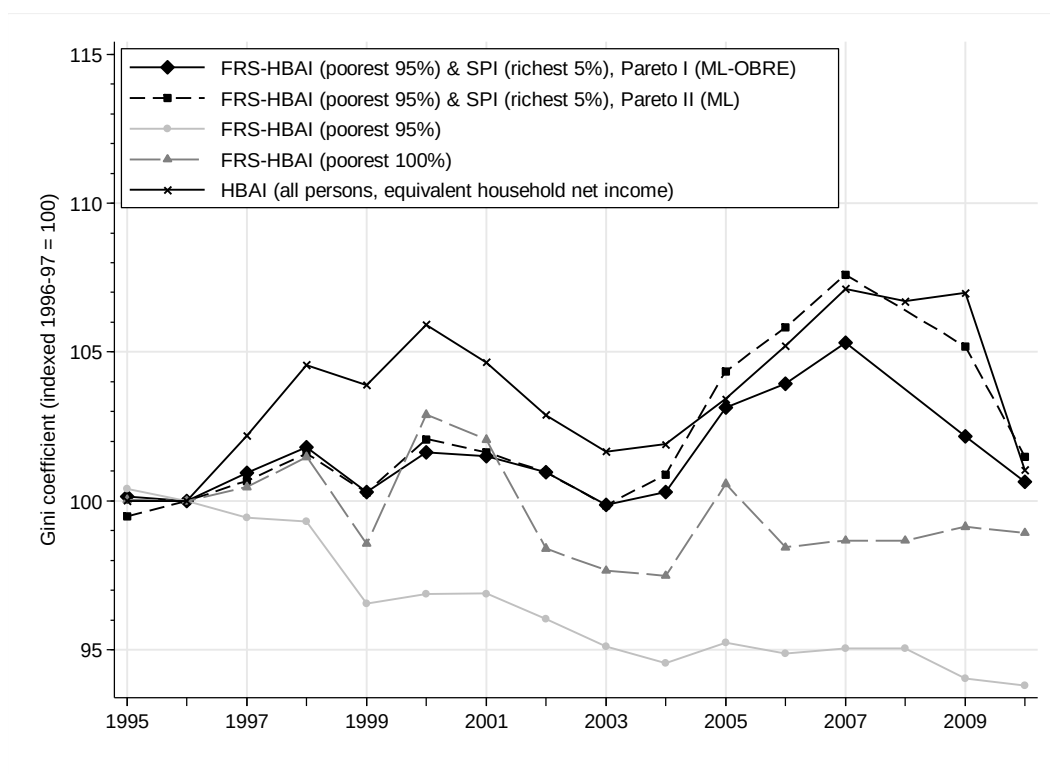
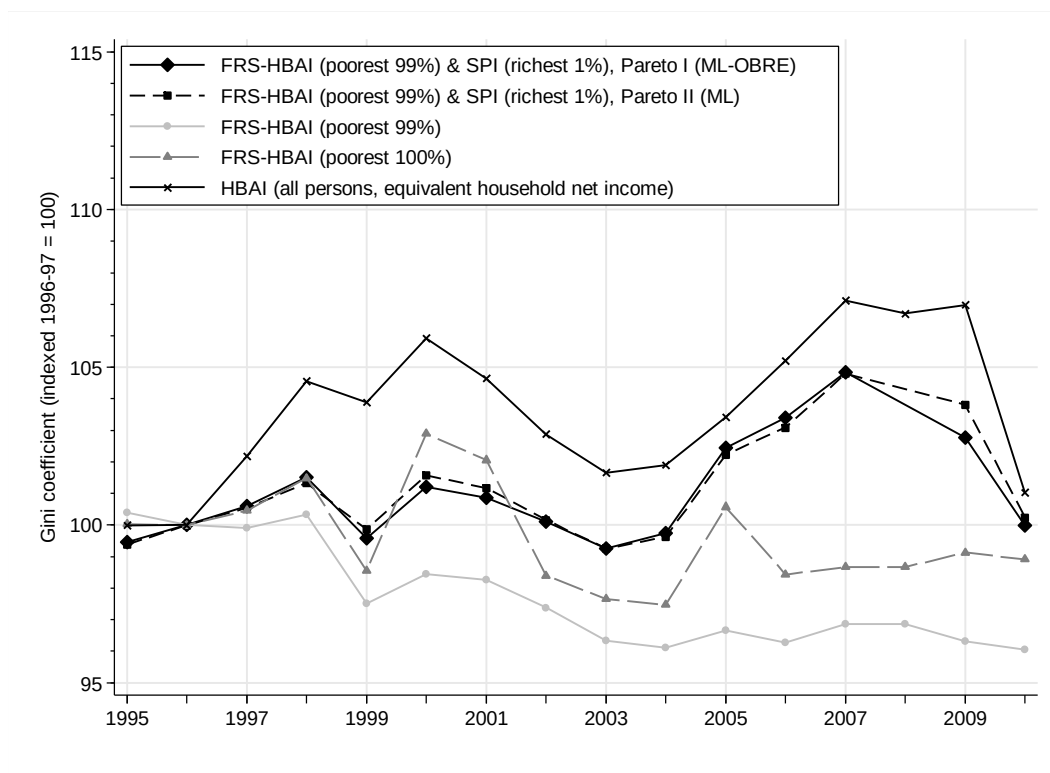
1999	.2397054	.4511849	.4096497	.3824015	.1680383	.1844293	.24936	.
2000	.2417646	.4777798	.4257922	.3805559	.1804743	.20269	.2586436	.
2001	.242203	.4790189	.4248226	.3843485	.179012	.197542	.2595372	.
2002	.2382627	.4706927	.4199902	.3858283	.1787738	.1953872	.2523283	.
2003	.2332013	.4419856	.4126235	.3750552	.1736076	.1897642	.2616688	.
2004	.2308694	.4518449	.4192195	.3632371	.1819669	.2051069	.2605589	.
2005	.2346063	.4541919	.4553958	.3528639	.2075122	.2391054	.289827	.
2006	.2327275	.4628327	.4693944	.3219931	.2182055	.2582306	.3059646	.
2007	.2340048	.4915753	.4848503	.3138822	.2310001	.2758854	.308138	.
2009	.229237	.5100929	.4529904	.2555873	.2065948	.2611165	.3022883	.
2010	.2278205	.4614535	.4230736	.367822	.1898465	.2156799	.2516191	.

Pareto I and Pareto II models: estimates of Theil, total (T), between-group (TB), among the Rich (threshold = p90 in the survey)

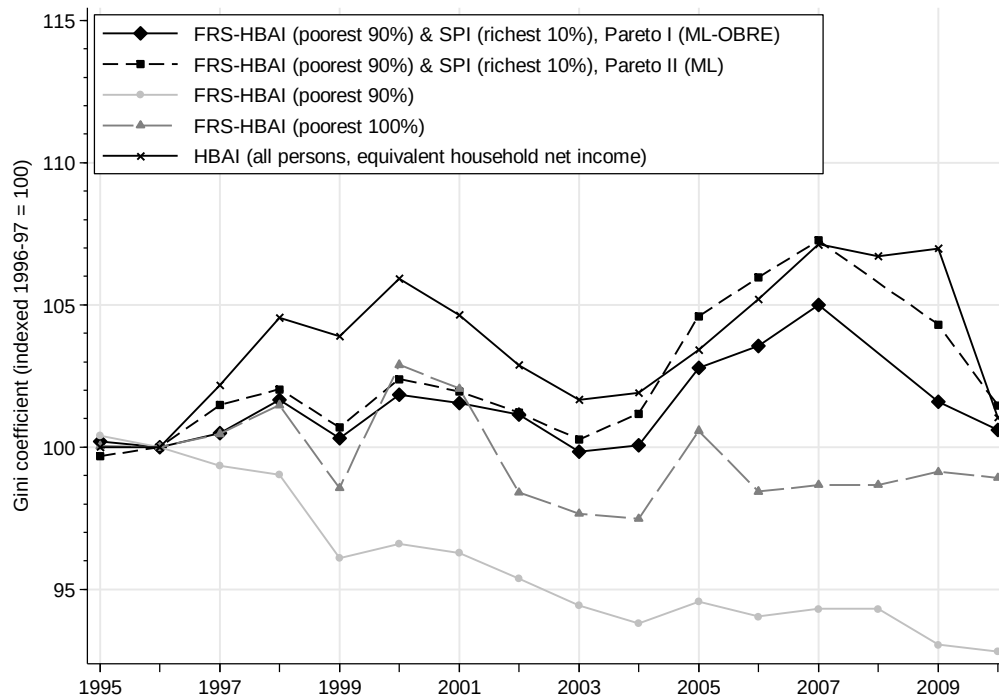
year	theil90	theil100	T_mlo	T_gpd	TB_mlo	TB_gpd	ge1_mlo	ge1_gpd
1995	.2356814	.4247697	.3722211	.3871457	.1576516	.1730212	.1508662	.
1996	.2337766	.4184593	.3754482	.3834709	.1578715	.1786855	.1669855	.
1997	.2308487	.4509146	.3822703	.372798	.1662881	.1965259	.1730002	.
1998	.2291471	.4611815	.3983943	.390883	.1789278	.2036368	.1934589	.
1999	.2140793	.4511849	.3906119	.3815751	.1810087	.2046587	.1981813	.
2000	.2168843	.4777798	.4083539	.388098	.192552	.218016	.2132349	.
2001	.21585	.4790189	.4053435	.386777	.1915808	.2157777	.2087459	.
2002	.2121447	.4706927	.4023989	.3909798	.1919328	.2123265	.2065366	.
2003	.2075343	.4419856	.393415	.3733507	.1850425	.2087071	.2104556	.
2004	.2053042	.4518449	.3906173	.367065	.1890715	.2178272	.1930813	.
2005	.2089942	.4541919	.42054	.3635464	.2093824	.2450951	.2154732	.
2006	.2066422	.4628327	.4330981	.3440427	.2188923	.2607624	.2288503	.
2007	.2082963	.4915753	.4473491	.3602792	.2290876	.2691602	.2357809	.
2009	.2030157	.5100929	.4123406	.3331501	.2052145	.2488212	.2154662	.
2010	.2016953	.4614535	.3965979	.3831158	.1976687	.2234078	.1932468	.

Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Gini coefficient (indexed 1996/97 = 100), by threshold

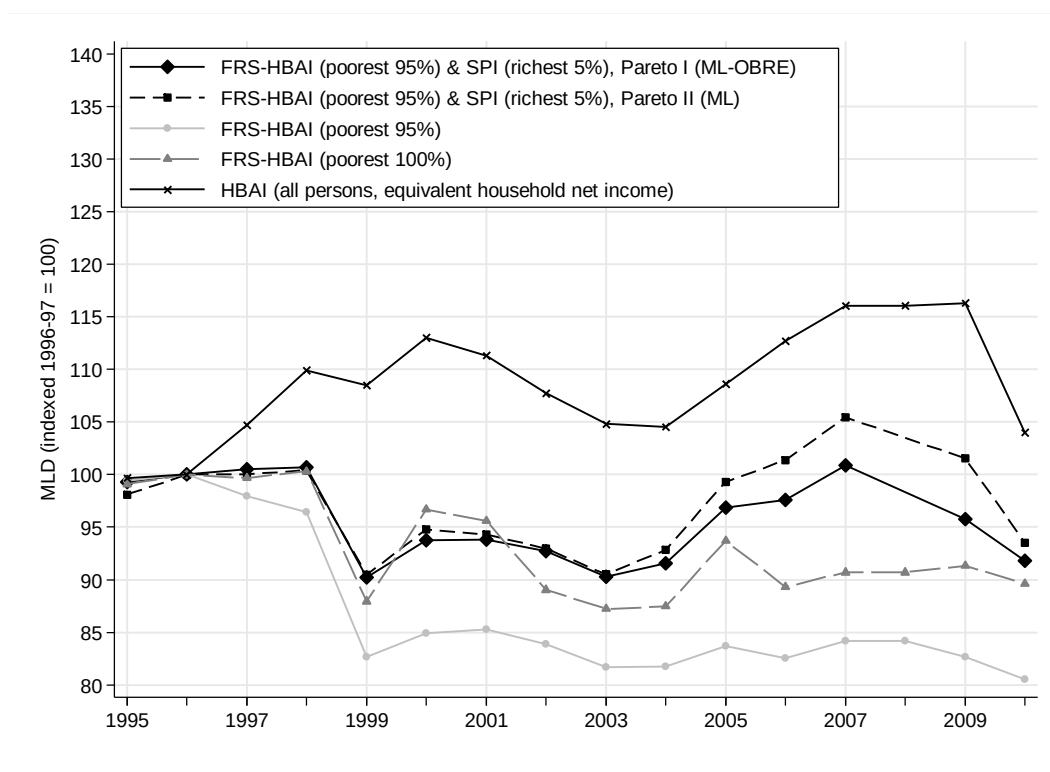
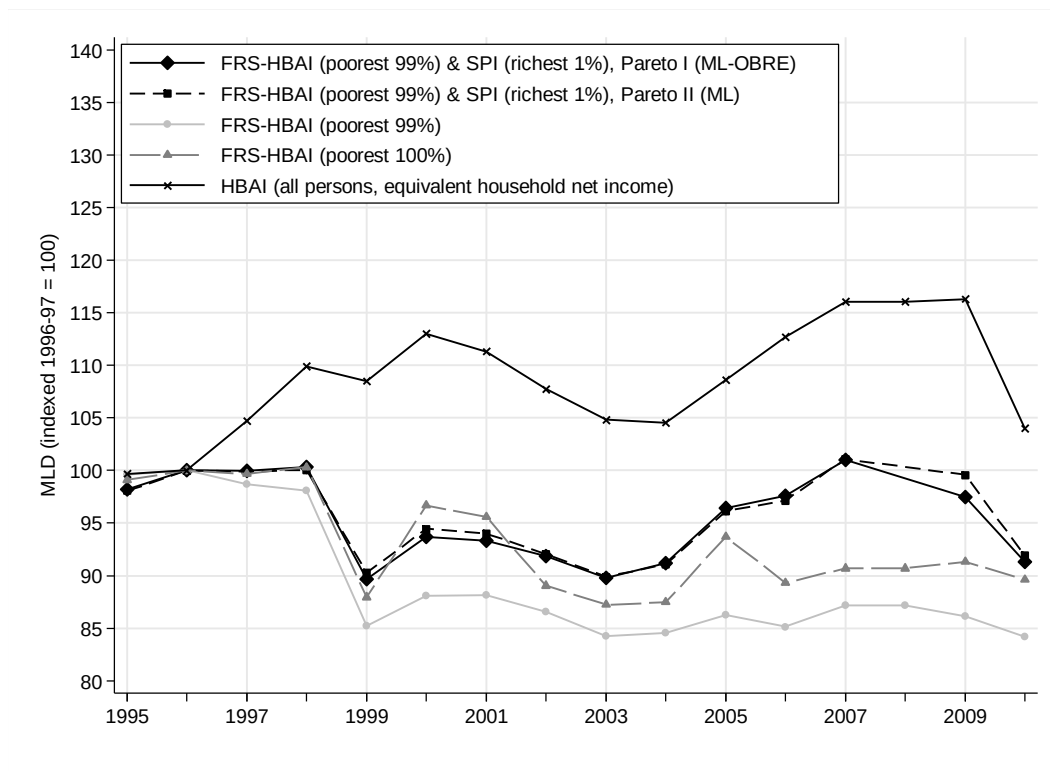


Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

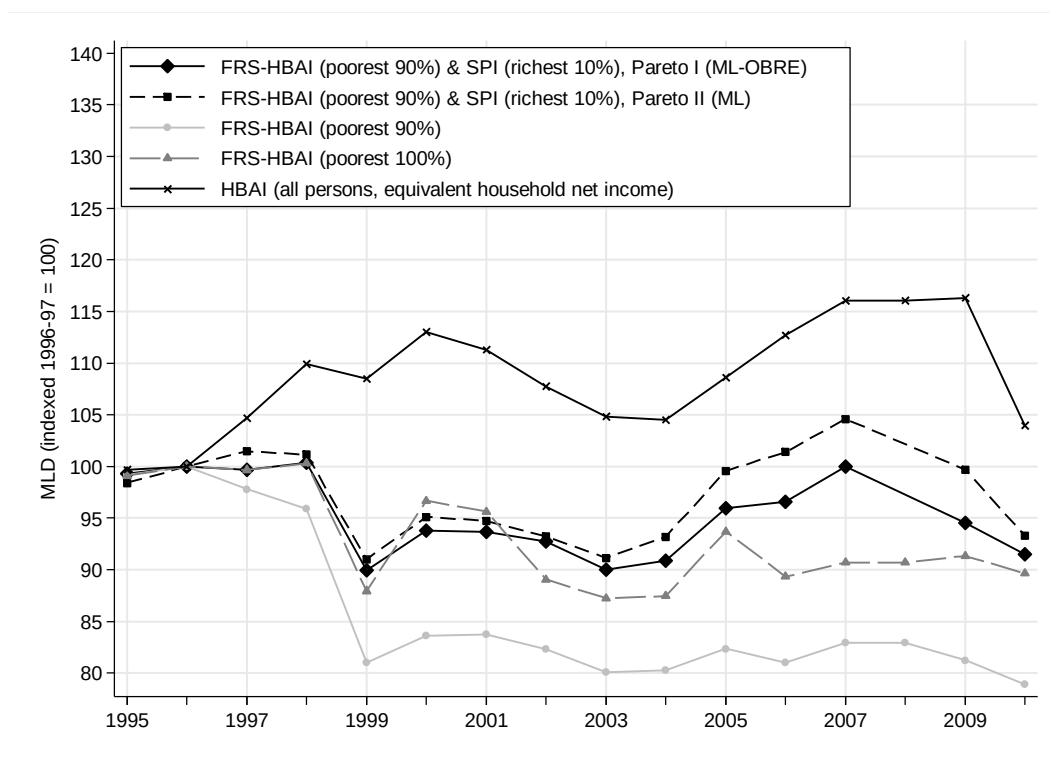


Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Mean Logarithmic deviation (indexed 1996/97 = 100), by threshold

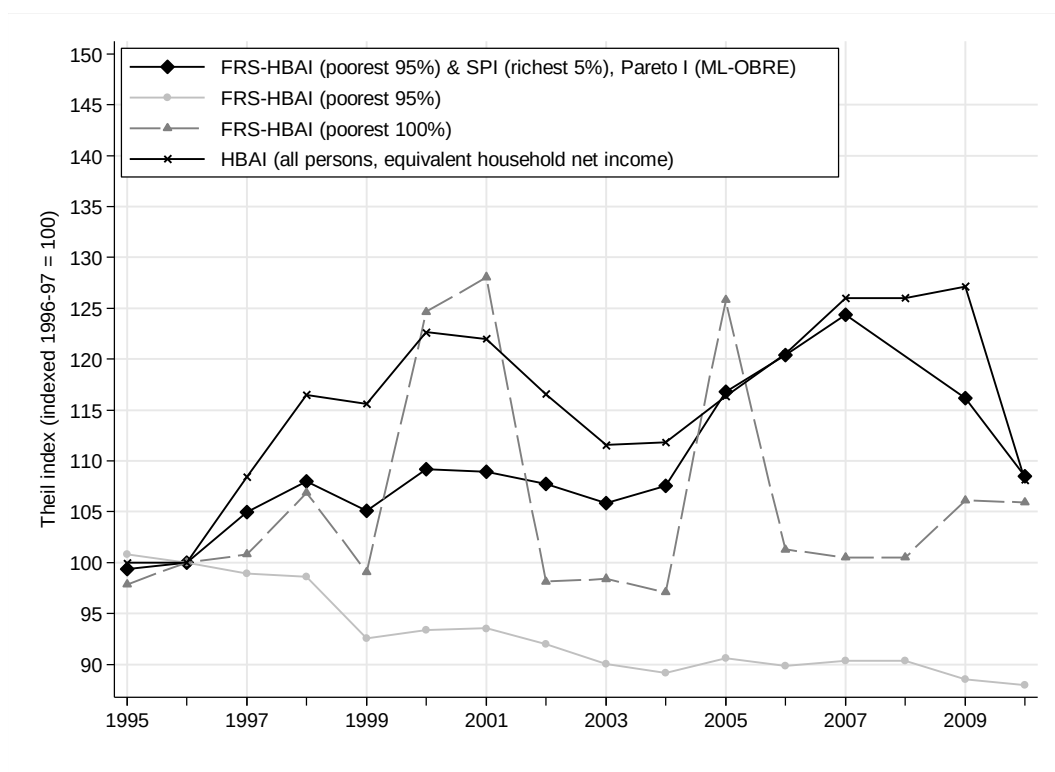
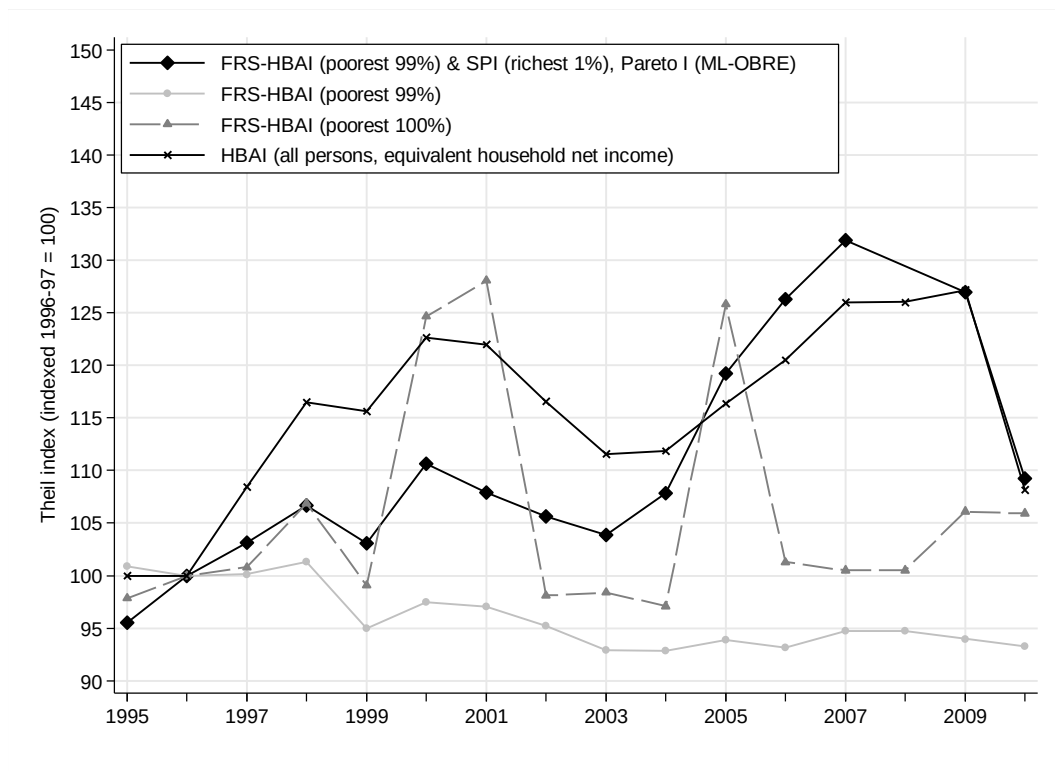


Approach C estimates, by threshold, with graphs of trends at the end (pareto14);



Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Theil coefficient(indexed 1996/97 = 100), by threshold



Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

