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PRICE DISCRIMINATION IN THE EUROPEAN CLOTHING SECTOR

Gianpaolo Rossini

ottobre '88

N/ 58

PRICE D. RIMINATION IN THE EUROPEAN CLOTHING SECTOR

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nevised persion actober 1988

maper presented at the fifteenth Annual Conference of EARIE August 3. maeotomber 2 1988; Rotterdam

HESTRACT

peen for some mars a sign or lagging integration. It is studies have considered industries like the car industry; reprice sitterences are a big proportion of the net price. We have conducted our anguiry into the unexplored ciothing industry, its covering a linear deal of price differences for similar or even dentical goods. Some econometric specifications have been tested approach the phenomenon which lends itself to a tentative interpretation based on per capita income differences plus import penetration from third world countries.

I wish to thank A.Jacquemin and C.Antonelli for their useful comments at the Rotterdam presentation, while keeping full responsability for the entire paper.

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1. INTRODUCTION

In four years the EEC will be a single market and many national peculiarities concerning production, consumption and trade, are going to be swept away. In the minds of the authors of the White Faper [Commission of the EC,(1985) "The Completion of the Internal Market", White paper of the Commission for the European Council, Com (85)310 def. I the elimination of technical, fiscal, physical barriers should let national markets loose their usual features in the EEC (see Pelkmans-Robson, 1987).

As recent research has shown (see Breitenacher-Paba-Rossini, 1988) there are industries in which the degree of integration in the EEC is already substantially advanced.

The textile and clothing industry is one among these sectors. Firms interviewed in four major European states (Great Britain, Germany, France, Italy) have asserted that exporting to any EEC country is not hampered by any severe barrier. Just slight obstacles remain due to 1. different VAT's, 2. exchange rates fluctuations and 3. some residual custom control. On top of that an Italian firm has declared that it finds easier to sell to Germany than to Southern Italy.

Despite of these statements is it really the EEC market for textile and clothing merchandises so integrated?

This is the question we would like to address and we shall try to answer it by analysing prices of the same goods at the same time in different EEC countries. There are sectors like the car industry in which huge differences of prices across countries for the same car have become the signal of the delays of the integration process (see Felkmans, 1984; Ginsburgh-Vanhamme, 1988). Do we have the same phenomenon in the clothing industry

and if so, how do we explain it? Will it be dueto slight parriers which still exist when trading in the EEC?

2.A CROSS SECTION ANALYSIS OF CLOTHING PRICES

The main question to be addressed concerns the existence of residual barriers to trade among EEC countries. We decided to inquire into the existence and dimension of barriers through the analysis of prices of identical goods across Europe.

The reasonwhy we do that is the following: if the price of the same good, for instance cotton jeans, diverges substantially between countries it means either that there are natural barriers (transport costs) that do not make arbitrage profitable through riexporting, or that there are other kinds of barriers (administrative and custom costs) which make exporting costly. The first set of reason explains why prices stay different among countries, yet it does not explain why they are set at different levels.

Before answering these questions we would rather examine prices. In tables 1a, 1b, 1c we present data on gross prices for some clothing goods in the EEC countries for years 1975, 1980, 1985. From these tables it appears that price differences are huge for many goods and do not decrease over time as integration becomes more influential for firm policies and consumer habits.

GROSS PRICES OF CLOTHING IN DM IN 1975

•	: >	,,	40 71	**	50	71.38	66.39	67.01	67.21	84.65	66.86	3
0.0	4.03	19.21	21.84	19.47	16.55	16.50	23.04	10.73	10.45	22.23	74. TO	
<u>•</u>	16.31	52.45	42.00	32.86	30.73	66.05	61.47	65.90	34.64	76.38	01. ye	
0.0	0.83	4.28	4.06	2.43	4.01	4.24	5.00	5.64	4.50		3. 93	,
0.0	8.19	48.87	56.98	41.40	35.39	51.62	49.03	46.10	43.25	. 70	07.10	֓֞֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֡֓֜֜֜֓֡֓֡֓֡֓֡֓֡֓֡֓֡֓֜֜֡֓֜֜֜֜֓֡֓֡֓֡֓֡֓֡֓֡֡֡֓֜֡֡֓֜֜֜֡֓֜֜֜֜֡֓֜֡֓
0.0	11.23	52.71	51.20	36.82	36.75	55.00	57.02	64.16	41.23	64.90		
0.	1.10	12.07	13.40	11.88	13.77	10.37	11.71	11.41	12.42	10.69	12.94	1
0.0	2.66	31.36	34.81	26.35	28.42	32.51	30.08	30.24	33.19	34.49	32.16	17
0.	7.02	51.34	56.27	39.76	42.93	53.18	53.10	40.15	51.20	65.36	52.00	16
0.0	•. •5	76.37	90.04	70.23	86.56	75.64	01.02	80.63	59.11	72.60	71.41	
0.0	7.62	79.20	87.14	78.71	79.00	83.48	71.22	86.72	64.01	87.68	74.00	ū
<u>•</u>	38.24	127.87	208.92	116.53	101.40	133.78	140.13	136.96	56.48	142.36	114.29	
0.0	29.03	142.42	166.27	103.30	114.30	156.47	140.27	133.27	167.41	193.04	107.43	; =
0.	53.43	290.06	365.53	206.39	194.04	321.14	298:05	312.63	274.31	331.17	307.29	7
0.0	31.54	212.19	288.77	180.52	197.83	215.65	231.96	180.24	206.66	216.03	192.00	•
0.0	10.87	77.17	93.19	73.44	62.54	90.59	84.29	71.56	62.38	85.19	71.32	
0.0	33.68	153.34	155.51	101.20	106.77	171.07	187.43	136.19	174.60	207.32	140.00	N
0.	54.86	325.73	348.67	283.95	248.40	325.61	360.49	305.45	319.56	451.30	200.13	, ,

SOURCE: DATA FROM EUROSTAT CALCULATIONS BY PROMETEIA

14 trousers for woman	12 dress for woman in jersey	11 reincost for women	10 wool cost for woman	7 wool bleser	5 trousers for men	2 reincost for man	1 wool coat for man
39 sporting outfit	18 children's cullour	27 elip for woman	25 chemiss for woman	24 pullover for men	19 slip for man	17 shirt for man	16 blue jeans

GROSS PRICES OF CLOTHING IN ECU IN 1980

307 309 312 313	124.12 73.81 29.68 26.08	155.90 92.07 35.32 27.73	128.40 85.71 23.14 18.18	151.82 87.89 32.21 26.29	153.05 83.86 34.91 24.28	154.51 89.72 40.31	37.78 32.94	108.08 44.94 25.76	198.05	128.53 72.45 21.82	149.04 91.05 33.02
315 317	80.23 12.15	105.27 15.83	15.00	12.86	102.26	103.91	87.08	73.22	29.33 132.35	23.01 73.39	25.00 107.68
320 321	12.96 5.88	20.19 6.29	17.45 5.37	13.14	17.00	22.69	16.01	14.00	20.49	14.15 19.42	20.3 0 23.55
322 326	4.85 126.85	4.93 140.73	3.17 100.60	3.18	5.04	5. 48	. 3.24	3. 3. 3. 36	6. 56 5. 35	2.40 3.53	6.28 3.75
330	43.96	54.08 26.28	30.21	51.25	38.99	51.37	42.66	90.72 33.88	104.00 52.44	127.51 25.62	133.44
336	13.00	••	16.82	10.43	16.07	16.30	15.43	21.00	26.13	21.69	27.24
339	1.12	2.59	15.41	12.21	11.13	12.65	12.60	10.22	22.71	14.21	23.50
340	1.90	2.29	1.28	1.54	1.95	2.45	. 4. 33	. 1.26	1.15	1.19	3.03
344	15.35	18.98	13.49	15.16	20.48	25.60	14.40	11.34	17.59	2.60	2.87
348	17.00	17.40	9.53	13.54	11.64	14.55	 9.54	10.36	9.33	9.67 :	
Source: EUROSTAT	ROSTAT										
309 5	reincost for man	or man		بر با	330 wool skirt	wool skirt	•	 		,	
313 J	jeens for men	Jeans for man	3	. ب	336 clees!	classic shift for women	USECON JO				
315 w	wool tweed je	wool tweed jacket for man classic shirt	or man	339		elip for woman					·
320 w	wool pullower g	wool pullover for men t'ehirt for men	3	340		collent nylon for women velveteen children's trousers	ren'e tro		,	-	
322 01	elip for man	5		244 Cotton Jecket for child	רטננטח	corton jecket for child	or child				

AVERAGE GROSS PRICES OF CLOTHING IN ECU IN 1985

516	172.00	151.00	153.00	140.80	172.50	209.40	186.00	•	224.00	••	171.10	
517	103.00	176.00	183.00	185.30	231.00	180.40	161.00	192.90	203.00	198.00	190.40	120.70
519	102.00	109.00	137.00	86.10	115.10	110.40	79.00	73.40	110.00	117.00	139.30	85 .
524	34.00	32.00	28.00	32.30	38.10	34.40	22.00	26.60	1 .00	29.00	30.60	34.
522	43.00	46.00	45.00	44.90	79.20	50.50	45.00	1 . 3	60,00	50 .00	••	8
\$27	115.00	106.00	152.00	100.50	172.70	148.10	8 .00	102.30	156.00	110.00	167.70	95.
531	35.00	61.00	6 .00	6 0. 9 0	67.00	64.20	45.00	36.00	\$ 9 3_	35.00	71.00	70.
535	16.00	23.00	24.00	10.90	21.30	22.20	15.00	15.40	18.00	25.00	26.70	21.
537	10.00	30.00	27.00	20.00	35.80	25.20	19.00	21.00	22.00	27.00	••	23
543	21.50		26.20	29.80	46.30	38.20	26.00	24.50	32.00	36 .88	31.00	33.
545	5.40	5.30	5.40	5.70	6.40	11.20	5 .8	5.40	J. 40	3.8	4.70	•
347	3.60	3.60	3 .8	3.20	••	••	3.00	5. 3 8	5.30	4.30	4.40	13.:
553	185.00	176.00	221.00	126.00	149.50	214.10	85 .00	102.40	202.00	171.00	107.10	111.
559	65 .00	73.00	49.8	41.00	60.70	61.50	1.8	65.60	8	38 .00	1.10	‡
560	49.00	41.00	41.00	33.30	41.40	65.10	26.00	43.30	32.00	••	¥.8	¥
546	24.50	23.15	••	21.46	37.93	25.52	20.44	24.24	14.37		30.59	21.
567	31.00	26.00	20.00	29.60	30.60	26.30	29.00	33.20	36 . 8	33.00	••	*
36	4.00	5.90	3.60	4.60	••		3.40	••	4.40	<u>*</u> .8	••	••
572	2.20	1.20	2.8	1.70	2.00	2.70		1.90	2.30	3.30	2.40	N
570	24.60	20.60	20.80	17.20	42.90	24.00	16.20	16.00	23.70	27.30	24.10	1
500	14.10	13.30	20.90	11.70	30.50	10.40	14.30	13.70	9.90	15.20	••	10.
		;	1 6					;		:	•)

Source: Data from EUROSTAT

the section description for page	
Sas cotton and operto for here.	545 t.ehirt for men
500 cotton children's shirt	543 wool pullover for man
570 velveteen children's trousers	537 cotton aport shirt
572 collent nylon	535 cleesics shirt
568 allp for woman	531 sporting outfit for man
567 wool pullower for women	527 wool tweed jacket for man
566 chemise for women	\$22 classics trousers for man
560 trousers for women mix of fibre	524 Jean's for men
559 wool skirt	519 raincost for man
553 wool cost for woman	517 wool tweed coat for men
547 allp for man	516 wool loden for man

Tables 1a,1b,1c.

One might simply object that prices presented above are gross prices, hence differences are due to national divergences between VAT rates. Net prices should likely display lower differences. We tried to see whether this objection was reasonable, by getting net prices from gross prices. As a result of that net prices are reported in tables 2a and 2b for 1980 and 1985 excluding 1975 since it could not be properly treated due to taxation systems which were not homogeneous at that time because not all countries had adopted simultaneously the VAT tax (see Commission of the EC, "Inventory of Taxes" various years).

				1		COLLEGE HYLOR FOR WOMAN	240 00				•	
					on for w					irt	classic whirt	317 .
						elip for women	339 .1		ne so	wool tweed jacket for man	pol tweed	
				The n	er for w	wool pullover for women	337 WO				Jeans for men	313 1
					T Tor X	classic shift for woman	336 c1		5	classic trouser for man	lessic tr	312 0
				Cor women	rousers !	333 velveteen trousers for woman	333 ve			07 848	reincoat for men	303
					,	wool skirt	330 wo			for man	wool coat for man	
							VIZIV	by PROPU	culations	05TAT cal	from EUN	Source: Jata from EUROSTAT calculations by PRONETZIA
02 0.	•	7.99	••	••	••	13.02	9.66	11.10	9. IQ	19.40		
200		9.01	7.20	0.01	9.54	9.52	.03	9.02		10.01		
2	•	14.43	13.72	9.64	12.24	24.32	17.00	12.45				.
.75 0.01		1.26	1.53	••	••	2.33	1.62	1.26	I. 09	1.9	11 16	£ ;
•	•	1.27	0.90	1.07	1.30	1.64	0.95	1.17	1.33	2.13	• • • •	10
2.81 0.08		11.97	17.71	1.69	10.71	12.02	9.24	10.01	13.10	15.43	70. DI	, , , , , , , , , , , , , , , , , , ,
•	_	11.39	14.16	11.90	13.46	15.49	13.34	1.55	14.30	 :	11.31	
		3 0.50	20.38	17.05	15.67	27.98	22.43	21.06	14.50	21.65	22.03	: :
		37.52	60.90	28.80	36.26	48.80	32.36	42.03	25.60	4.5	36. 23	; ;
~	6.	99.25	143.52	77.11	••	142.81	105.99	112.02	85.51	115.96	110.34	
_	•	3.64	4.17	2.86	2.75	5.21	4.10	2.61	2.69	.00	4. 22	
	•	4.07	5.12	2.62	4.74	6.52	5.20	4.75	4.56	5.10	5.12	17.5
	.	15.25	21.09	11.90	14.29	21.56	14.11	10.77	14.03	16.64	11.20	320
0.00	2	12.45	15.90	9.20	11.63	17,63	10.63	10.55	12.75	13.04	10.57	317
2	- -	00.10	103.23	62.24	74.02	98.71		71.47	70.50	96.74	69.80	315
43		21.11	22.00	15.95	21.27	27.19	20.15	21.56	15.45	22.85	22.69	313
.40 0.07	<u>.</u>	28.05	34.32	21.90	28.00	38.29	26.90	26.41	19.67	29.10	25.02	312
.00 0.07	13	\$. 50	79.62	38.20	49.11	05.23	69.60	72.07	72.85	67.63	64.21	309
		110.03	154.48	91.87	••	146.70	127.03	124.49	109.14	120.46	107.98	307

321 t'shirt for man
322 slip for man
326 wool cost for women

346 velveteen children's trousers 346 cotton jacket for child

348 mix of fibre selopette for bebe-

AVERAGE NET PRICES OF CLOTHING IN ECU IN 1985

7.92 122.91 125.46 114.05 139.73 196.04 17.38 143.26 150.06 150.09 187.11 169.56 17.72 88.73 112.34 69.74 93.23 103.76 92.24 26.05 22.96 26.16 30.86 32.34 6.98 37.44 36.90 36.37 64.15 47.47 8.90 86.28 124.64 91.41 139.89 139.21 00.10 49.65 37.72 49.33 54.27 60.35 37.72 49.33 54.27 60.35 37.72 19.60 15.31 17.25 20.87 5.48 22.14 16.85 29.00 23.69 8.92 : 21.32 24.30 37.50 35.91 4.64 2.59 : : : : : : : : : : : : : : : : : : :			fibr•	mix of	trousers for woman mix of fibre	trousers		-	t for mar	531 aporting outfit for man 535 classics whirt		
147.92 122.91 125.46 114.05 139.73 157.30 143.26 150.06 150.09 187.11 87.72 80.73 112.34 69.74 93.23 29.24 26.05 22.96 26.16 30.86 36.90 37.44 36.90 36.37 64.15 90.90 06.20 124.64 91.41 139.89 30.10 49.65 37.72 49.33 54.27 13.76 10.72 19.60 15.31 17.25 15.40 24.42 22.14 16.85 29.00 18.92 : 21.32 24.30 37.50 4.64 4.31 4.62 25.9 : 159.10 143.26 181.22 102.06 121.10 55.90 59.42 40.18 33.21 49.17 42.14 33.37 33.62 26.97 33.53 21.07 10.64 : 17.30 30.72 26.66 21.16 22.96 23.90 31.27 4.13 4.00 2.95 3.73 : 13.14 10.03 17.14 9.40 24.71 17.46 21.49 19.35 14.10 29.65 Data from EUROSTAT; calculation by P 916 wool loden for man 543 524 jeans for man 543 522 classics trousers for man 543	500 cotton children's shirt				7	wool skirt	559	5	ket for a	tweed jec	527 woo1	
147.92 122.91 125.46 114.05 139.73 157.39 143.26 150.06 150.09 187.11 87.72 88.73 112.34 89.74 93.23 29.24 26.05 22.96 26.16 30.86 36.98 37.44 36.90 36.37 64.15 98.90 84.26 124.64 -81.41 139.89 30.10 49.65 37.72 49.33 54.27 13.76 18.72 19.68 15.31 17.25 15.40 24.42 22.14 16.85 29.00 18.92 : 21.32 24.30 37.50 4.64 4.31 4.62 5.18 310 2.93 2.46 2.59 : 159.10 143.26 181.22 102.06 121.10 55.90 59.42 40.18 33.21 49.17 42.14 33.37 33.62 26.97 33.53 21.07 18.84 : 17.38 30.72 26.66 21.16 22.96 23.90 31.27 4.13 4.80 23.96 31.27 4.13 10.83 17.14 9.48 24.71 17.46 21.49 19.49 29.65 Data from EUROSTAT; calculation by P 916 wool loden for man 537 517 wool tweed coet for man 543 524 jeans for man 545	578	5	5	2	t for wo	wool com	553	5	ers for a	ice trous		
147.92 122.91 125.46 114.05 139.73 157.39 143.26 150.06 150.09 187.11 87.72 88.73 112.34 89.74 93.23 29.24 26.05 22.96 26.16 30.86 36.98 37.44 36.90 36.37 64.15 98.90 86.28 124.64 .81.41 139.89 30.10 49.65 37.72 49.33 54.27 13.76 18.72 19.68 15.31 17.25 15.48 24.42 22.14 16.85 29.00 18.92 : 21.32 24.30 37.50 4.64 4.31 4.43 4.62 5.18 31.0 2.93 2.46 2.59 : 159.10 143.26 181.22 102.06 121.10 55.90 59.42 40.18 33.21 49.17 42.14 33.37 33.62 26.97 33.63 21.07 18.64 : 17.38 30.72 26.66 21.16 22.96 23.98 31.27 4.13 4.80 2.95 3.73 : 1.89 0.98 1.64 1.39 34.75 12.13 10.83 17.14 9.48 24.71 17.46 21.49 19.35 14.19 29.65 Data from EUROSTAT; calculation by P 516 wool loden for man 537 517 wool tweed coat for man 543	572 collant mylon				5	elip for	547		٠	COL MOD		
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147.92 122.91 125.46 114.05 139.73 196.04 1 157.30 143.26 150.06 150.09 197.11 169.56 1 67.72 66.73 112.34 69.74 93.23 103.76 1 29.24 26.05 22.96 26.16 30.06 32.34 32.34 36.90 37.44 36.90 36.37 64.15 47.47 47.47 98.90 96.28 124.64 -91.41 139.89 139.21 139.21 30.10 49.65 37.72 49.33 54.27 60.35 13.76 13.76 18.72 19.60 15.31 17.25 20.87 15.91 15.40 24.42 22.14 16.85 29.00 23.69 23.69 18.92 : 21.32 24.30 37.50 35.91 10.53 3.50 2.93 3.462 2.59 : : : 159.10 143.26 191.22<	: 3.43 3.60	••		•	2.89	••	••	3.73	2.95	4 .	4.13	568
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147.92 122.91 125.46 114.05 139.73 196.04 1 157.30 143.26 150.06 150.09 187.11 169.58 1 67.72 68.73 112.34 69.74 93.23 103.76 29.24 26.05 22.96 26.16 30.86 32.34 36.96 37.44 36.90 36.37 64.15 47.47 96.90 46.26 124.64 -81.41 139.69 139.21 30.10 49.65 37.72 49.33 54.27 60.35 13.76 18.72 19.60 15.31 17.25 20.67	10.90 17.16 24.30	10.90		(A	16.15	23.69	29.00	16.85	22.14	24.42	15.48	537
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147.92 122.91 125.44 114.05 139.73 196.04 1 157.30 143.26 150.06 150.09 187.11 169.58 1 67.72 68.73 112.34 69.74 93.23 103.76 29.24 26.05 22.96 26.16 30.86 32.34 36.90 37.44 36.90 36.37 64.15 47.47 96.90 66.26 124.64 61.41 139.69 139.21	34.20 38.22 31.50	34.20		3	36.25	60.35	54.27	49.33	37.72	49.65	30.10	531
147.92 122.91 125.46 114.05 139.73 196.04 1 157.30 143.26 150.06 150.09 107.11 169.56 1 07.72 00.73 112.34 69.74 93.23 103.76 29.24 26.05 22.96 26.16 30.06 32.34 36.90 37.44 36.90 36.37 64.15 47.47	92.07 121.68 99.00 1	92.07		0	73.10	139.21	139.89	.01.41	124.64	86.28	3.30	527
147.92 122.91 125.46 114.05 139.73 196.04 1 157.30 143.26 150.06 150.09 187.11 169.58 1 07.72 00.73 112.34 69.74 93.23 103.78 29.24 26.05 22.96 26.16 30.86 32.34	40.41 46.80 45.00	40.41		ū	30.25	47.47	64.15	36.37	36.90	37.44	36.98	522
147.92 122.91 125.46 114.05 139.73 196.04 157.30 143.26 150.06 150.09 167.11 169.58 67.72 60.73 112.34 69.74 93.23 103.76	23.96 31.98 26.10	23.90		0	10.70	32.34	30.86	26.16	22.96	26.05	29.24	524
147.92 122.91 125.46 114.05 139.73 196.04 197.38 143.26 150.06 150.09 187.11 169.58	66.06 85.80 105.30	66.06		U	67.15	103.76	93.23	69.74	112.34	88.73	67.72	519
147.92 122.91 125.46 114.05 139.73 196.04	5 173.61 150.34 170.20 160.45	173.61		ŭ.	136.85	169.58	187.11	150.09	150.06	143.26	157.30	517
	: 176.28 : 118.13				158.10	196.04	139.73	114.05	125.46	122.91	147.92	516
										•	1	

Tables 2a,2b.

As can be seen from the above tables, net prices do not show lower divergences than gross prices. Standard deviations and coefficients of variation [in the last two columns on the right : the coefficient of variation has been computed by correcting it because not all series had the same number of observations. The coefficients of variation have been computed according to the following formula

St.Dev. / [Mean ($\sqrt{n-1}$)]

where n is the number of observations] prove that price discrimination across countries is a phenomenon which goes far beyond the problem of the so called "fiscal barriers". In other words VAT rates harmonization would not be able to bring prices across countries on a row.

3. INDUSTRIAL DETERMINANTS OF PRICE DIFFERENCES

When markets are somehow separeted, price differences among markets might be just the result of a discrimination policy by firms which want to take advantage of separation by charging in each market a different price according either to demand elasticity or to the degree of competition in that market.

<u>Demand elasticity</u> provides information on many features of a market.

First of all it (price elasticity) says something on the habits of consumers in that market, their willingness to buy the good produced by that sector.

Secondly it (income elasticity) tells us whether the good is

inferior, normal or a luxury.

A second thrust to the question of price discrimination could come from <u>market structure</u>. We might think that different market structures give rise to different prices when barriers among countries exist even to a slight degree. This is not to revive the old quarrel about structure-performance; yet we just want to maintain that relative concentration among national markets could be related to the degree of openess of national markets. Only because a more concentrated market is deemed to be less open we will say that higher concentration in the clothing sector could lead to higher prices.

This statement can also be supplemented by the analysis of economies of scale in the textile -clothing sector conducted elsewhere (see Breitenacher-Paba-Rossini, 1988; Mariotti, Boston Consulting Group, 1984; OECD, 1983, 1987; Owen, 1983). From the wide literature it appears that in this sector economies of scale at plant level do not extend very far. This makes the optimal plant rather small. However this does not mean that the dimension of the firm has to be small as well. Yet simply that concentration is more a matter of market and organization. Then our supposition is that concentration is a sort of proxy for the existing barriers of a national market. This means that a market where concentration is higher is going to be a market in which international competition is lower and prices are higher. We tried to test this proposition by using data on prices of two goods produced by two subsectors of clothing industry and the respective concentration indices. The analysis is crossectional, i.e. over the two goods in each EEC country; also time in some way entered the picture since we have used data for 1975 and 1980 pooling cross sections with time series in order

to have a wider sample. Time series are not proper time series since we have just two observations over time. We have to remind that pooling times series and cross sections is acceptable ifstructural coefficients are stable over time (see Maddala,1977). Stability can be simply assessed by analysing the coefficient estimated each year. If these coefficients are stable according to the <u>Chow test</u> we can proceed with pooling, otherwise we cannot.

Let us describe the structure of the relation we want to test. We shall estimate a function whose dependent variable is the price of a good produced by the trousers subsector and a good produced by the knitwear subsector.

The prices come from Eurostat data and cover all EEC countries Concentration is the only explanatory variable: it has been computed by a Gini index on Eurostat data.

The function estimated was

Lprnet = a Lgini

a = 1.0181 S.E. = 0.043 T = 23.55 $R^2 = 0.62$

S.E.of regr.: 0.6715

log.likelihood = -16.838

where Lprnet is the log of prices while Lgini is the log of concentration indeces for trousers and knitwear in different EEC countries in 1975 and 1980. I log specification is introduced because the Gini coefficient is not a linear measure of concentration].

From the results obtained it seems that over 60 percent of price

differences for two clothing goods across the EEC can be explained by the differences in concentration of their respective country industry.

A second industrial determinant of price differences across EEC countries can be national consumer expenditure structure. The rationale for it can be traced from different elasticities to income of clothing expenditure in each EEC country. In other words we suggest that whenever a country has a higher elasticity of clothing expenditure to income prices of luxuriuos goods tend to be higher. We then collected data on the proportion of clothing expenditure respectively for man and for woman according to different income classes. These data are provided by Eurostat and have been reported in table 3.

	0	overall average	verage		t.	income lower	lower quartile		inco 1st qu	income between the lst quartile and median	veen the	an
code	GERMANY	FRANCE	ITALY	U.K.	GERMANY FRANCE	FRANCE	ITALY	U.K.	GERMANY FRANCE		ITALY	C.X.
20000	810	840	1 045		766	713	594	589	733		869	735
21000	657	681	851		628	578	452	436	608	624	686	569
21010	668	676	846		618	575	448	436	601	619	682	569
21011	216	236			109	175		109	180	193		154
21012	375	296	٠	282	421	308		228	348	283		253

	•		
a) With	20000 21000 21010 21011 21012	code	
total e	734 609 604 207 325	GERMANY	income median
xpenditu:	847 685 682 237 235	FRANCE	income between the median and the 3rd quartile
re of ho	1 060 845 841	ITALY	the 3rd quai
useholds	814 633 633 180 253	Ú.K.	rtile
With total expenditure of households = 10 000.	747 628 623 224 334	GERMANY FRANCE	th
)0.	898 783 732 276 308	FRANCE	income higher than 3rd quarti
	1 173 979 973	ITALY	igher uartile
	850 683 683 210 324	U.K.	

Source: EUROSTAT

code 20000 = clothing and footwear

code code 21010 21000 11 clothing other than footwear clothing other than footwear, including repairs

code 21011 = men's garments
code 21012 = ladies' garments

<u>=</u> _ .

Germany is an inferior good since its share declines as we move to higher income classes. We tried to find a relationship between the prices of goods which are usually bought by people with average income in the first income quartile and the proportion of their expenditure devoted to clothing. As can be seen this is a way to treat in a cirumvented manner the problem of different income elasticities among countries which should allow price discrimination [The problem of price elasticities has been examined recently for the clothing sector also by GATT, 1984].

The empirical testings conducted in this case are very poor and we do not present the result since no significant relation seems to exist between the share of expenditure devoted by consumers belonging to different income classes and the prices charged for the goods they buy more frequently. Probably we should try to get data which describe more precisely income elasticities of diverse goods or group of goods.

Now we should shift our attention to price elasticities, since it is more likely that differences in these elasticities should be responsible for price discrimination.

4.STRUCTURAL DETERMINANTS OF PRICE DIFFERENCES

We are going to consider two sorts of structural determinants in order to explain price discrimination. One is per capita income differences among EEC countries and the other is the degree of import penetration from third countries.

4.1 PER CAPITA INCOME DIFFERENCES

the <u>first</u> one is linked to the famous Linder (1961) specialization theory. According to Linder, countries with a nigher per capita income tend to buy goods of better quality which should be priced at higher level. This theory is at the pasis of a great deal of Intraindustry trade literature (see Loertscher-Wolter,1980; Helpman-Krugman,1985; Helpman,1981). It says that it is a matter of quality if we find for instance classic man wool trousers priced at a spread of about 40 percent between Hamburg and Milan or Madrid, and this quality is directly linked to the standard of living of a country. In other words in Germany people will buy on average better cloths since they are on average richer than their fellow EEC citizens in Madrid. This will imply that on average in German shops we find cloths better styled at a higher price.

We have tested this hypothesis by taking prices of the same goods in two different years (again pooling time series and cross sections data) as explained by per capita income of the respective countries.

The result is as follows:

Lprnet = c + b lgdpcapita

where lp2net is the log of net prices of two homogeneous goods in 1980 and 1985, c is a constant and lgdpcapita is per capita income in the the EEC countries.

c = -.2856 S.E. = .99 T = -.28

b = .3795 S.E. = .10 T = 3.47

 $R^2 = .4157$

SE of regr. = .16

log lik = 8.32

F = 12.09

Even though almost one half of price discrimination is explained by per capita differences it seems that this explanatory variable is not sufficient to give reason of the entire phenomenon.

4.2. IMPORTS FROM THIRD COUNTRIES

has been argued elsewhere (see Cline, 1987; It Breitenacher-Paba-Rossini, 1988) that the degree of import penetration of a market by low cost producers, mainly coming from third world countries, might be one of the main causes of price differences. The reader could at this point ask why price differences are so great. After all the EEC is a common market in which all merchandises can circulate freely without any restraint and imports from third countries should explain mainly the level of overall prices in the EEC rather than price differences. Yet there are some goods which cannot freely circulate in the EEC. Which are and why? We have to remind that imports from third countries are regulated under the Multifiber Agreement which has set limits to imports of textiles and clothing. Yet this would be of no relevance if the limits where established, say, by a uniform tariff or an EEC quota. The fact is that the MFA is "mainly an umbrella" (see Cline, 1987;

Silberston, 1984) while the actual content of MFA is represented by pilateral agreements signed separately by EEC national governments. Each government sets the limits it decides after negotiations with each country separately. Quotas established have to be consistent with the frame set by the MFA.

We know that when a country imposes a quota on an imported good the same quota can give rise to different prices according to the demand elasticities (see Corden,1971). If in addition quotas differ among countries because of separeted agreemnts prices will differ even more.

Yet that is not the end of the story. In presence of huge differences of prices of third countries goods among EEC countries there should be some arbitrage through riexporting. That is in practice impossible because of art.115 of Rome Treaty which requires for every good the declaration of country of origin. Hence a T-shirt imported by Britain which has a more liberal policy cannot be riexported to France which has a more restrictive policy.

It is at this point interesting to see whether imports from third countries coupled to the restraint on riexporting can explain price differences. To do that we resort to imports in quantities available from CIRFS (Comité International de la Rayonne et des Fibres Synthetiques) and we tested our hypothesis. The results are as follows:

The estimated function is

where the variables have the usual meaning [prnet is again the vector of the whole set of prices no longer restricted as before to only two prices when using p2net] and $\underline{\text{quota}}$ is the inverse of the degree of third world import penetration of a country.

$$c = 2.53$$
 SE = .54 t = 4.62

$$d = 0.10$$
 SE = .09 $t = 1.16$

$$8^{2} = .07$$

SE of regression = .20

log lik. = 3.94

F = 1.33

As we can see the variable quota does not seem to explain that much.

However we could jointly use many variables to see whether we may be able tobetter explain the phenomenon of price discriminination by giving weight only to some or to all the variables mentioned. After few experiments, the best results were obtained when using as explanatory variables both per capita income and imports from third countries.

In this case the function estimated was

Prnet = c + b gdpcapita + d quota

c = 6.96 SE = 3.09 T = 2.25

b = 0.0013 SE = 0.00024 T = 5.56

d = 0.0091 SE = 0.0029 T = 3.09

SE of regr. = 2.93 log lik. = -45.79 F = 16.83

EEC in the clothing sector is by using an econometric specification which takes into account both per capita income across countries and import penetration by third world producers [we have to remind that we include among producers from third world, NIC's and Eastern Europe]. These two variables are able to explain almost 2/3 of the price differences in a pooled cross section analysis: this is not a bad result after all. Moreover coefficients have the right sign.

Therefore we can say that

- 1. The higher the level of income per capita in a country the higher will be the level of the price of a good. This is a further comfirm of Linder, Helpman, Loetscher-Wolter hypothesis: a country which is on average richer will end up by buying the same good yet at a higher price, i.e. with higher quality specifications which let the good be priced higher.
- 2. The effect of third world import penetration stands clear as well. The influence of cheap imports on prices makes them lower where import penetration is higher (quota is the inverse of third world import penetration).

5. CONCLUSIONS

Some general conclusions might be drawn even though we do not nave to attribute too much weight to the empirical relations we

nave tested, because their econometric reliability is bounded.

theorists can be extended. They maintained that a richer country exports merchandises which are priced higher because of their quality. This is the consequence of a specialization beginning on the domestic market where more affluent consumers prefer more luxurious goods. To this it can be added what we found: that countries with greater per capita income will pay more for the same goods which are sold at a lower price in less affluent countries within the EEC. This phenomenon could be thought of as physiological and the 1992 single market should progressively eliminate it insofar as

- 1. consumer habits become more akin among EEC consumers, as integration goes on
- 2. producers become more European in terms of commercial networks
- 3. trade becomes even less costly because of the eventual elimination of any custom control and perhaps owing to fiscal harmonization.

However the second variable, we found significantly linked to price differences, tells us that a part of price differences is due to the discretionary import policy of each country or at least to the ability of third world producers to enter and be successfull on that market.

depends on what is going to happen to the MFA. The result will hinge upon the degree of discretionary power left to each country in negotiating import quotas. The greater will be the room left to bilateralism within the EEC (coupled to art.115 of Rome Treaty) the more likely will be the persistence of price differences among EEC country in the clothing sector.

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