

中 国 教 育

卷

.....	02
—— 1982-2010 16	11
“ ”	19
.....	23
.....	27
.....	31



100082

gaoyanbianjibu@163.com

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010 59893297

能力与出身：高等教育入学机会分配的机制分析

20 90

——“ ” MM “
” EM “ ” RAT “
” ——
20

“ ” “ ” P.
Willis M Apple “
” S. Bowels H. Gintis

“ ”

FJH Featherman- Jone-
Hauser CASMIN Comparative Analysis of
Social Mobility in Industrial Nations

2006
2003

1998

“ ”

“ ” “ ”
_____ “ ”
“ ”

“ ”

“ ”

“ 985 ” “ 211 ”

• “ ”
selective attrition hypothesis

$$SSCORE_{i,k,t,p} = \frac{score_{i,k,t,p} - \overline{score}_{k,t,p}}{stdev_{k,t,p}}$$

score score
stdev i k t p

2006-2011

/

=

“ ”

b

6

4

10

/

/

/

logit

1

$$\text{logit} = a + \sum_{i=1}^6 \beta_i X_i + \sum_{j=1}^4 \beta_j X_j + \sum_{k=1}^{10} \beta_k X_k + \epsilon \quad (1)$$

“ ” “ ”

3

2008

Coefficients

Sheaf

(

(

7

$$\eta_a = c_1 + \sum Z_i X_i \quad (2)$$

$$\eta_b = c_2 + \sum Z_{ij} X_{ij} \quad (3)$$

log
g

4

1
1

logit

mlogit

2

“ 211”

“ 985”

2 = exp 28178

21213

M logit

0

0

0

mlogit

=

=

mlogit

logit

logit

logit

post-estimation

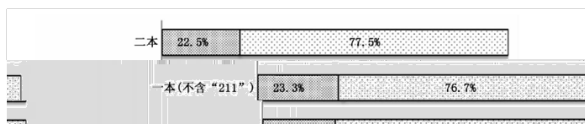
		1	2	3	4	5
		vs.	“ 985” vs.	“ 211” vs.	“ 211” vs.	vs.
		1. 0377 [0. 0215]	0. 7410 [0. 0135]	0. 6772 [0. 0126]	0. 5000 [0. 0132]	0. 4106 [0. 0112]
(1)	total	2. 7893 [0. 0377]	2. 4789 [0. 0214]	2. 0633 [0. 0175]	1. 4950 [0. 0178]	1. 1811 [0. 0172]
	(1)	0. 6661 [0. 0208]	0. 3082 [0. 0129]	0. 3410 [0. 0118]	0. 1789 [0. 0126]	0. 2193 [0. 0101]
	(2)	0. 7855 [0. 0207]	0. 6299 [0. 0130]	0. 5608 [0. 0122]	0. 4662 [0. 0130]	0. 3441 [0. 0111]
(2)	(3) total	2. 8178 [0. 0376]	2. 5402 [0. 0218]	2. 1213 [0. 0178]	1. 5339 [0. 0182]	1. 1864 [0. 0172]
	(1)	0. 6661 [0. 0208]	0. 3082 [0. 0129]	0. 3410 [0. 0118]	0. 1789 [0. 0126]	0. 2193 [0. 0101]
	(2) a.	0. 4588 [0. 0281]	0. 3895 [0. 0198]	0. 3405 [0. 0175]	0. 3028 [0. 0184]	0. 1880 [0. 0152]
	b.	0. 4929 [0. 0266]	0. 3552 [0. 0156]	0. 3203 [0. 0144]	0. 2684 [0. 0148]	0. 2131 [0. 0132]
	(3) a.	2. 6127 [0. 0381]	2. 4305 [0. 0217]	2. 0582 [0. 0177]	1. 4981 [0. 0183]	1. 1276 [0. 0173]
	b.	0. 5105 [0. 0165]	0. 3002 [0. 0139]	0. 1898 [0. 0134]	0. 0578 [0. 0144]	0. 1343 [0. 0124]
	c.	0. 1432 [0. 0195]	0. 0711 [0. 0142]	0. 0678 [0. 0126]	0. 0742 [0. 0129]	0. 0353 [0. 0114]
	d.	0. 3652 [0. 0191]	0. 2358 [0. 0137]	0. 1500 [0. 0129]	0. 1308 [0. 0135]	0. 1394 [0. 0108]
		N=227459 pseudo R2=0. 173 chi 2=57172. 4 df=340				

269 = 278881.0377 335
 305 299 288
 2 1
 5 359
 408 378 329 345

80%

20%-23.3%

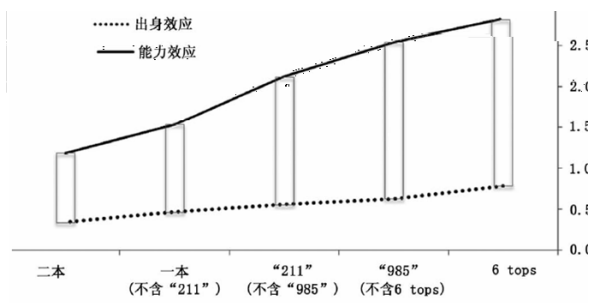
23%-27%



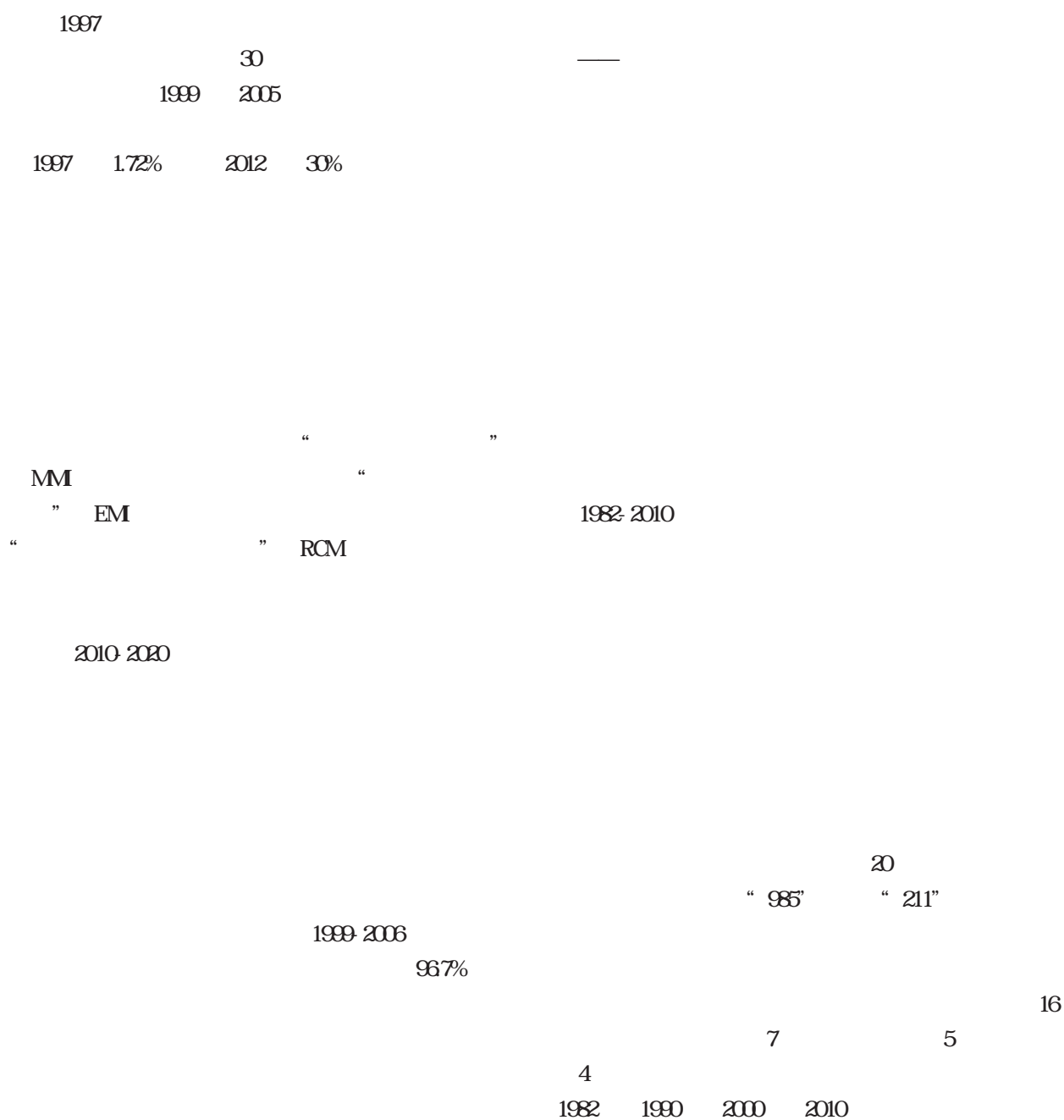
1

“211” “211”

“985” “985”



高等教育入学机会获得的阶层差异分析



1

1

2651

671

1

2580

7864

12804

5122

1

1

1982		224	483	72	58	270	542	119	1768
		325	783	251	114	400	902	70	2385
		97	222	74	35	175	315	11	929
1990		455	780	154	62	372	689	160	2672
		332	768	286	94	423	1019	19	3004
		161	309	136	38	196	705	25	1570
2000		373	634	209	60	239	329	21	1865
		277	464	520	219	933	1567	96	4076
		94	168	98	147	116	854	11	1488
2010		354	449	209	277	148	422	62	1921
		232	491	284	582	412	1063	56	3120
		52	41	17	138	157	777	21	1203
		3036	5592	2310	1824	3334	9184	671	26551

1

1

2

1982

717 518

538

098 105

5

043

17 1990

7.8%

93

462% 133%

1982

A

= A / A

1

1982	A1 %	16	51	13	40	159	720	009	1000
	B1 %	115	264	70	37	166	312	36	1000
	B1A1)	717	518	538	098	105	043	/	/
1990	A1 %	18	53	17	54	151	706	005	1000
	B1 %	139	256	80	27	137	333	28	1000
	B1A1)	773	484	470	050	091	047	/	/
2000	A1 %	17	57	31	91	158	645	007	1000
	B1 %	100	170	111	57	173	370	17	1000
	B1A1)	588	298	358	063	109	057	/	/
2010	A1 %	18	68	43	162	225	483	01	1000
	B1 %	102	157	82	160	115	362	22	1000
	B1A1)	567	231	191	099	051	075	/	/
		M				SD			
1982		3357				28911			
1990		31917				301487			
2000		2455				20852			
2010		20233				19169			

2000

5

384%

1990 260

17 10 90

2010 90

2000 225% 466%

2000 57.1% 31.6%

2000 345%

2 20 80

1982 31.2 1990

1982 1.98% 1990

1999
1999 2005
2000
56.8%
12.9% 2010
70.9% 26.5%
20
10
90
20
2
20 80 90

20 90

3

1982	A1 %	16	51	13	40	159	720	009	1000
	B1 %	127	273	41	33	153	307	67	1000
	B1A1)	792	536	313	082	096	042	/	/
1990	A1 %	18	53	17	54	151	706	005	1000
	B1 %	170	292	58	23	139	258	60	1000
	B1A1)	946	551	339	043	092	037	/	/
2000	A1 %	17	57	31	91	158	645	007	1000
	B1 %	200	340	112	32	128	176	12	1000
	B1A1)	1176	596	361	035	081	027	/	/
2010	A1 %	18	68	43	162	225	483	01	1000
	B1 %	184	234	109	144	77	220	32	1000
	B1A1)	1024	344	253	089	034	045	/	/
		M				SD			
	1982	3103				30825			
	1990	3367				36146			
	2000	3783				45029			
	2010	29817				37658			

2000
423%
299%
129%
2
10

3 1982 1990 2010
2000 1990
483%
1982
485% 2010 3 20
80 1990

4

1982	A1 %	16	51	13	40	159	720	009	1000
	B1 %	11.1	267	86	39	167	307	24	1000
	B1A1)	6 92	523	658	097	105	042	/	/
1990	A1 %	18	53	17	54	151	70 6	005	1000
	B1 %	130	25 6	95	31	142	339	06	1000
	B1A1)	725	482	560	058	094	048	/	/
2000	A1 %	17	57	31	91	158	645	007	1000
	B1 %	68	114	12 8	54	229	384	24	1000
	B1A1)	400	200	412	059	145	060	/	/
2010	A1 %	18	68	43	162	225	483	01	1000
	B1 %	74	157	91	187	132	341	18	1000
	B1A1)	411	231	212	115	059	071	/	/
		M				SD			
	1982	3530				30310			
	1990	3283				29704			
	2000	2127				15902			
	2010	18317				13218			

30

80%

2010

469%

“ ”

1

30

20 90

2000

2

1982

5

70%

20

MM

20 80

2000

2

2000

1990

2000

2010

2008

10 22

20 80

2010

EM

20

3

GDP4%

“ ” “ ”

“

”

80%

“

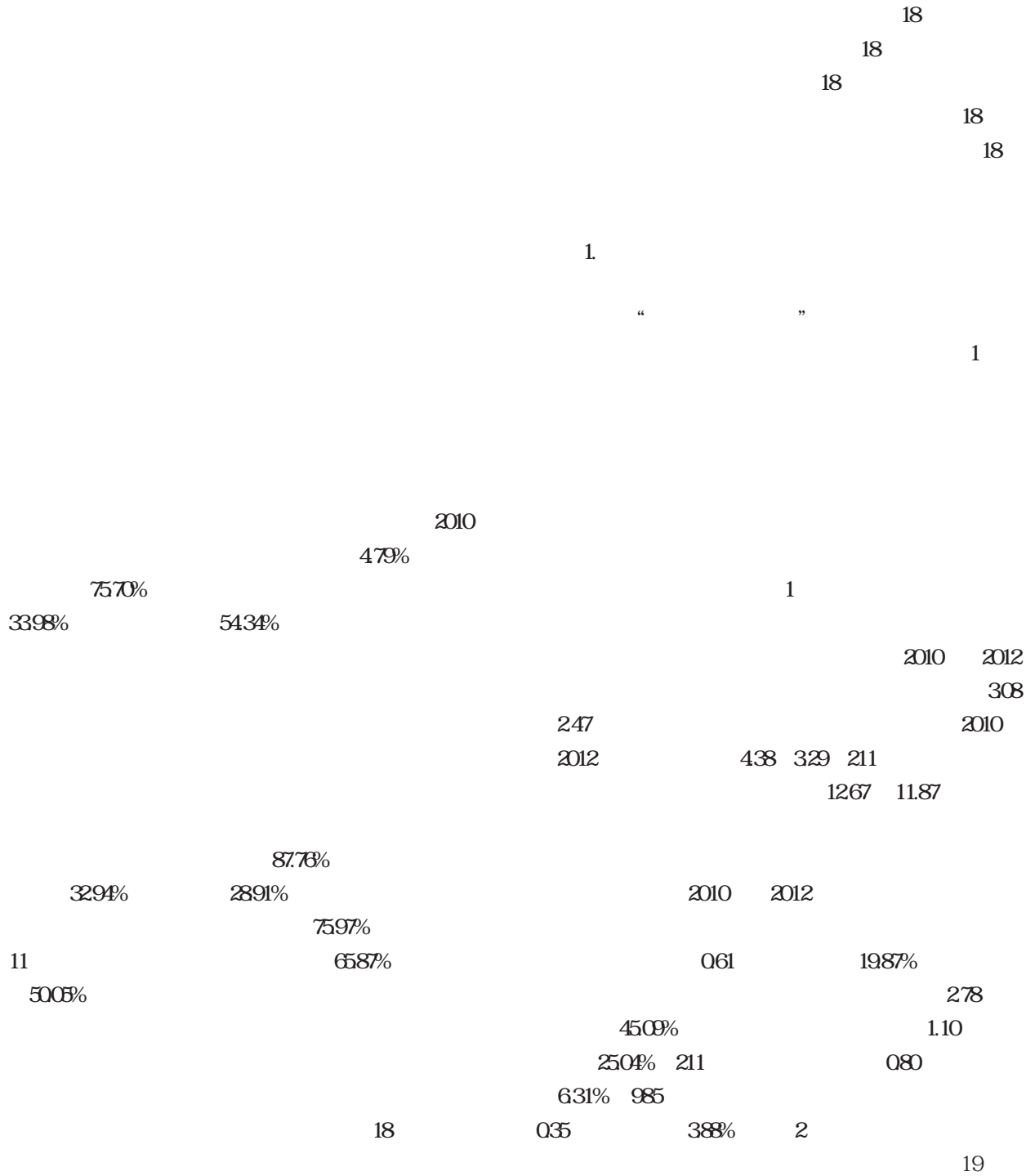
”

“

”

2012

高等教育入学机会地域不公平研究



007

19.04%

003

12.25%

211

005

6.21%

985

001

1.73%

31

2

01

0

1

01

1

2010

2012

027

023

27

23

026

023

037

030

211

075

071

985

211

073

075

2010

985

211

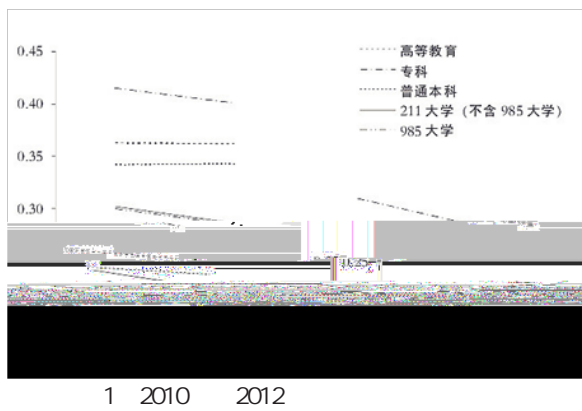
2012

985

211

005

16.69%



1 2010 2012

1

2010 2012

0.363

0.362

0.262 0.252

3

50%

descogni

1%
0045%-00583%

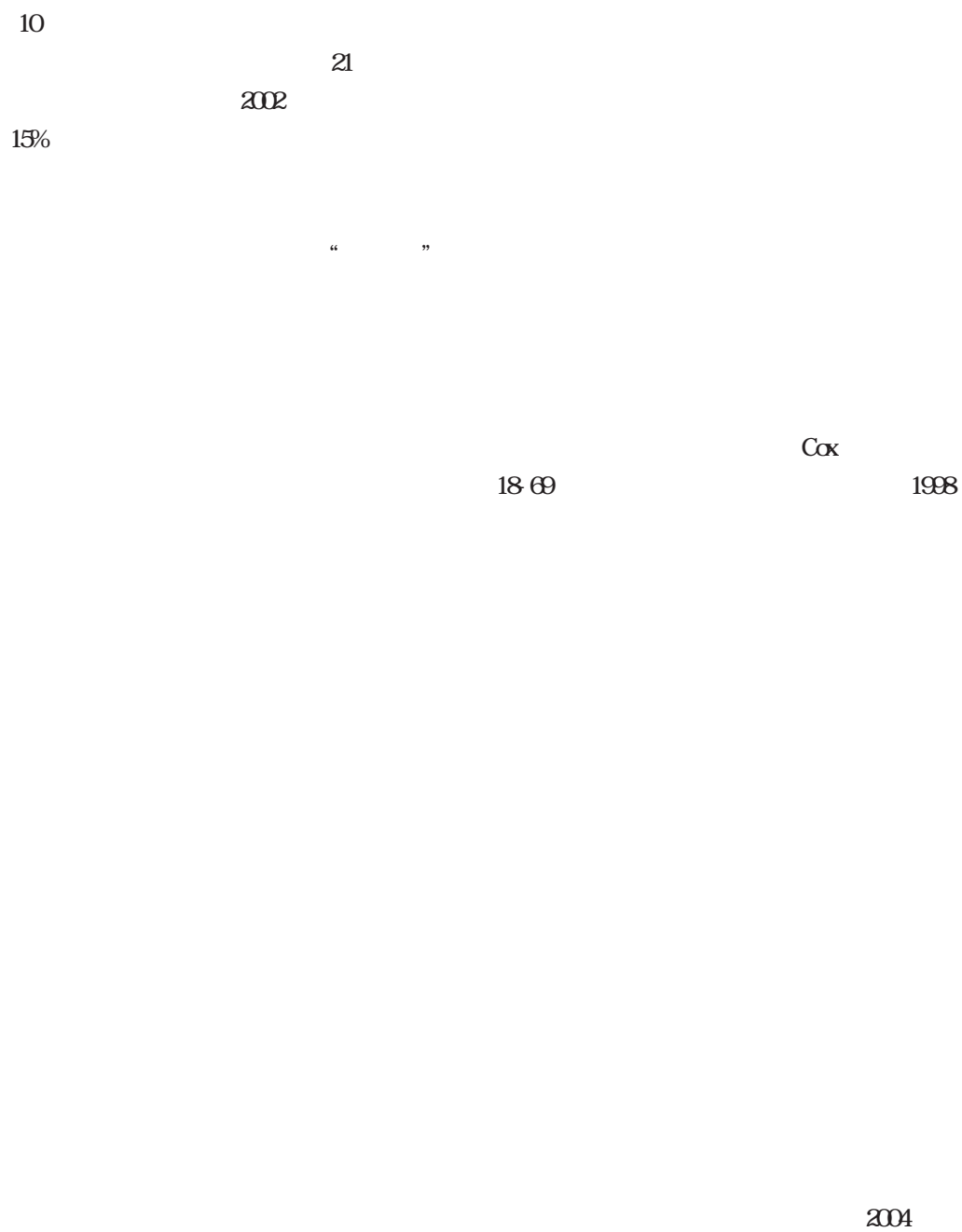
40%
2010 3977%

4037% 2012 4442% 4461% “ ”

2010 1%
0044% 2012
00312% 211 985

1%
0007%

大众化背景下我国高等教育入学机会的多维度分析



2007
 31 175
 5595 4843 47170
 8660% 84 85%

SPSS160

EXCEL2003

1
 1
 2006
 2
 44704 2000
 24614

					P
	24413	546	2000	4494	.000
	20291	454	24614	5506	
	44704	100	44704	100	

2= A-E 2E A ,E
 E 1
 1
 1
 P 0005
 5506%
 454%

2007

2007

2007

2

2007

2007
 4268

2

					P
	3652	85	982	23	.000
	2517	59	1110	26	
	1942	45	555	13	
	4287	100	2600	63	
	1990	50	2989	70	
	2392	56	4056	95	
	4866	116	4312	101	
	7353	172	6278	147	
	10886	257	17207	403	
	2613	60	2519	59	
	4888	100	4888	100	

2= A-E 2E

2=

3652 982 2982+ 2517 1110 21110+ 1942 555/555
 + 4287 2600 /2600+ 1990 2989 /2989+ 2392 4056
 /4056+ 4866 4312 /4312+ 7353 6278 /6278+ 10886
 17207 /17207+ 2613 2519 /2519-17009 82 df=10 1
 2 P P 0005

10

282%

9

329%

3

					P
	19835	43 18	17883	38 924	.000
	13026	28 35	15129	32 928	
	13082	28 47	12932	28 148	
	4594	100	4594	100	

2= A-E 2E

2

2=

19835 17883/217883+ 13026 15129 215129+ 13082
 - 12932 212932=507.13 df=3 1 2 P
 P 0005 3

2

23%

2007

2005 1%

85%

x

403%

2007

257%

2= A-E 2E

2

P=0000

12

389%

4

					P
	22768	488	24065	51.53	.000
	23982	51.2	22635	48.47	
	46700	100	46700	100	

55% 2007
 45% 45% 2007
 55%

5

1

1

1

1

5

		/
		1215
		0824
		3666
		2289
		3462
		1587
		0714
		059
		1149
		1171
		0638
		1017
		1109
		0861
		1011
		0946
		1056

5

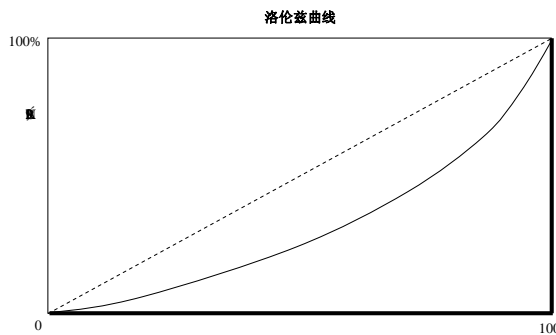
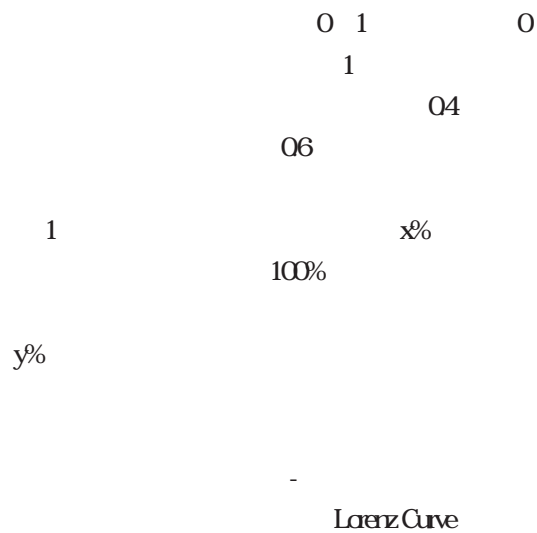
1

1

2007

47170

以“基尼系数”衡量部属高校分省招生指标的公平性



2004-2009

1

(Gini Coefficient) 20
 Corrado Gini 1884-1965 1922

X_i Y_i n
 $n=34$

Equation 1

G

2004 04152
 A 2005-2009
 2004 1
 1 2005 2009 A

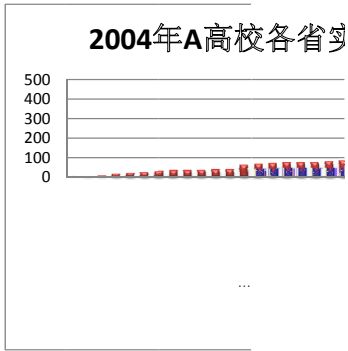
	2004	2005	2006	2007	2008	2009
	04152	04432	04149	03795	03961	03933

2004

A

A

2004



2 2004 A

A

02 —

02 03 —

03 04 —

04 05 —

05 06 —

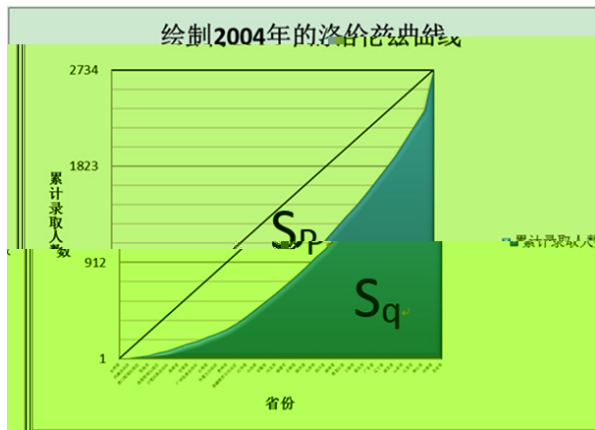
06 —

04

2004 2009

A

A



3 2004 A

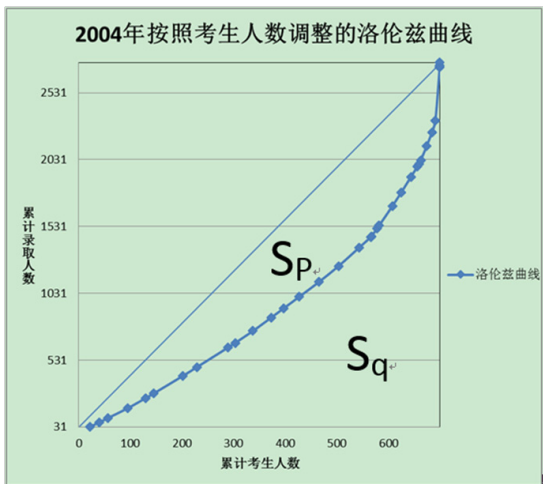
$S_p/(S_p+S_q)$

(1)

2

4

2004 2009



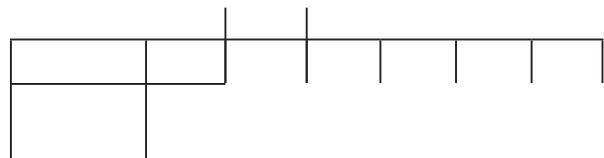
4 2004

A 2004 03628
04152 2004 A

2004 2005-2009
3 2004-2009 A 3

	2004	2005	2006	2007	2008	2009
	03628	03869	03985	03596	03817	03915

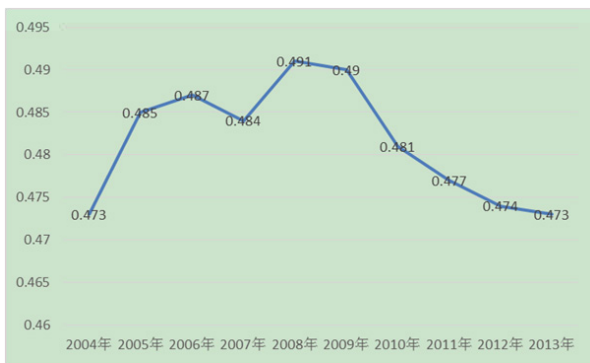
4



4
A
2009
03802
A
03 04
2004
5 2004 2013
A

B 2011
06979 2011
06214 06
B
B

02846 B
A
2004
03628
A
B B



5 2004-2013

02719

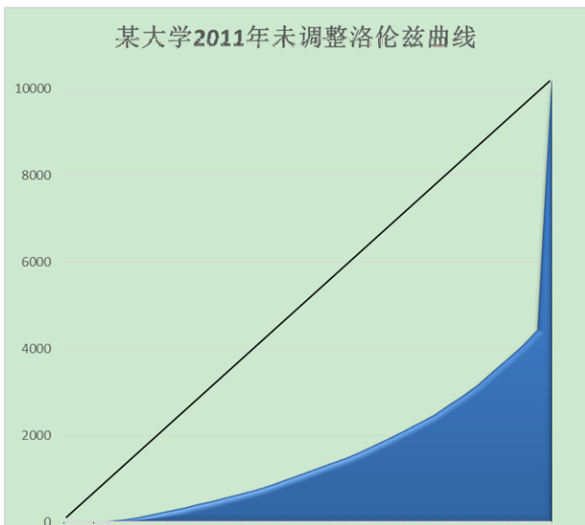
B 2011

04

B 2011
04

6

06214 055
2015



6 2011

04

A

《中国高等教育入学机会的公平性研究》： 公平应从中小学入手

1999

2009

“

”

A

2004

“ ”

1949

1959 - 1961

“ ”

1962

1962

2001

746%

297%

386%

“ ”

80

90

2006

“ ” “ ”

“ ”

“ ”

“ ”