# Performance Authenticity: A Case Study of the Concert Artist Label

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Association of Recorded Sound Collections Conference
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# 1. Hatto Hoax

# Background

LETTER FROM ENGLAND

#### FANTASIA FOR PIANO

Joyce Hatto's incredible career.

BY MARK SINGER



2003-2006: ~100 CDs covering a wide range of classical piano repertoire.

TOP CDs OF 2005

Richard Dyer, Boston Globe:

10. Brahms: Piano Music. Joyce Hatto, piano *Concert Artist/Fidelio Recordings*. **Hatto, a British pianist now in her mid-70s, was my great discovery of 2005**. Although illness has kept her off the concert platform for decades, she has made well over 100 CDs surveying virtually the major piano repertory. None of the 50 or so I have heard is disappointing, and the best join the company of the best piano record ever made. A particular favorite is this Brahms volume that includes the "Paganini" Variations.

(Matti Raekallio)

January 2006, *Gramophone*, Jeremy Nicholas:

"the world's unrivaled authority on classical music since 1923"

#### 2007:

- 80 CDs identified in whole or part from other commercial CDs
- 90 pianists represented on Hatto CDs.

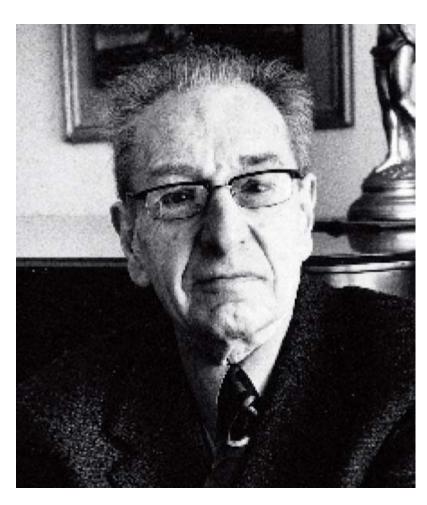
http://www.farhanmalik.com/hatto/main.html

Best overview:

Sept. 17, 2007 issue of the New Yorker

http://www.newyorker.com/reporting/2007/09/17/070917fa\_fact\_singer

# William Barrington-Coupe



"Barry"

- Hatto's Husband
- In recording industry since 1950's (Saga/Lyrique/Delta/Triumph labels)
- Concert Artist/Fidelio Recordings

  http://concertartistrecordings.com

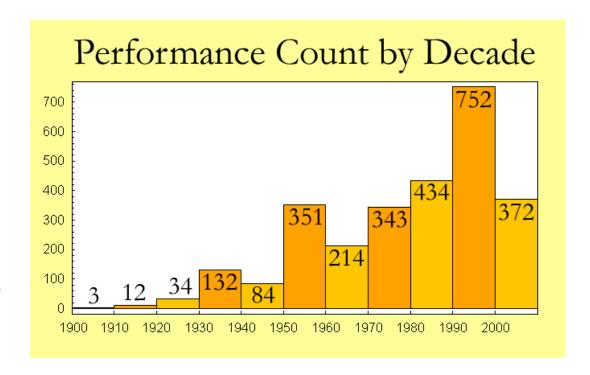




• 2,732 recordings of 49 mazurkas by Frédéric Chopin (1810-1849)

= Average of 56 performances/mazurka

- 157 performers
- on 209 CDs/records
- 123 hours of music
- Earliest performance from 1902 by Alfred Grünfeld: mazurka 67/4



Performance Extraction



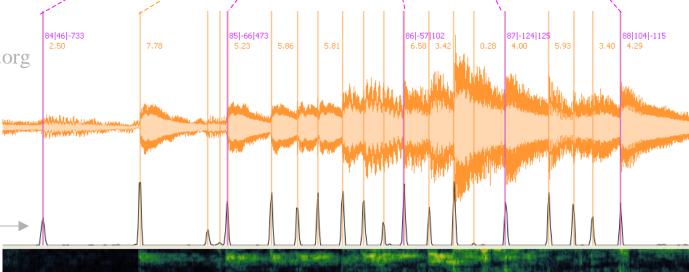
Sonic Visualiser
Audio Editor

http://www.sonicvisualiser.org (Queen Mary, University of London)

#### Plugins:

Mz Spectral Reflux \_\_\_\_\_\_ Mz Harmonic Spectrogram

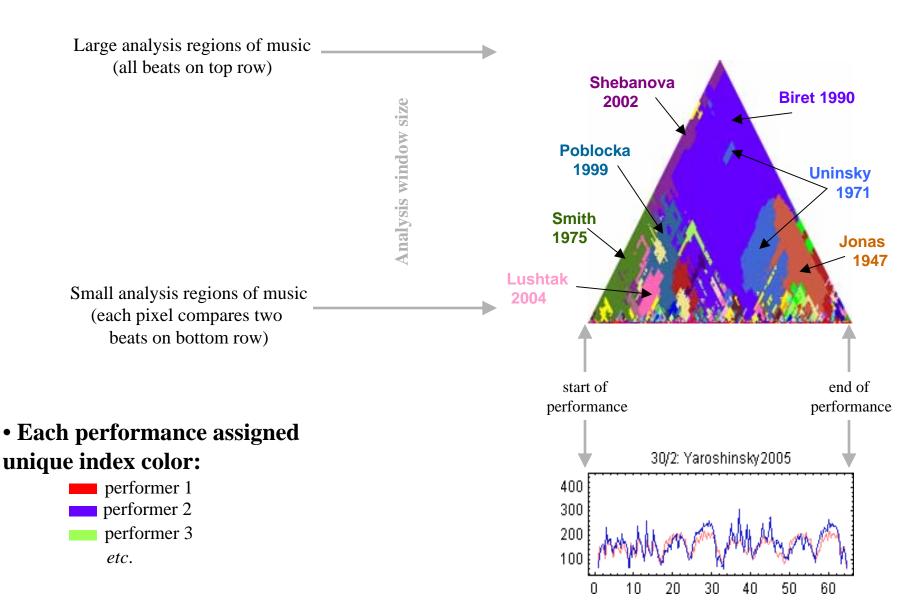
http://sv.mazurka.org.uk (Royal Holloway, University of London)



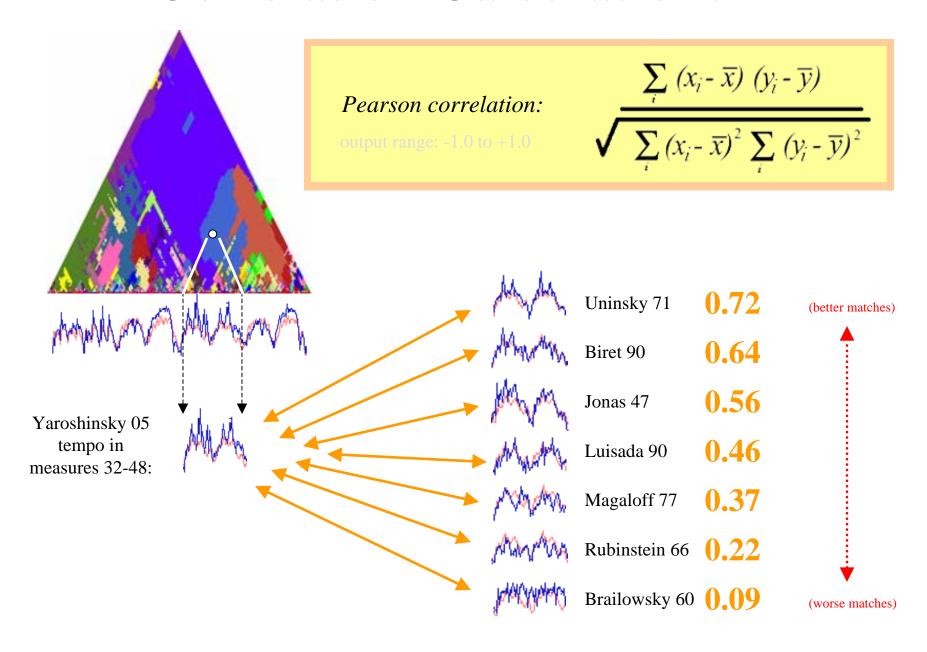
# Beat Tempo Data

measure	beat	Afanassiev 2001	Ashkenazy 1981				let 2003 E					Cohen 1997 C	oop 1987			Czerny 1949b	Ezaki 2006
1	2	63	99	68	103	90	101	63	97	97	90	133	73	72	78	100	82
1	3	69	113	92	118	136	150	94	103	105	126	168	97	126	105	104	92
2	1	73	120	99	128	166	158	116	97	100	150	152	97	119	100	103	100
2	2	72	117	93	122	153	150	138	98	95	158	183	111	132	95	97	100
2	3	71	106	90	122	158	125	121	92	91	152	171	94	108	86	80	97
3	1			73	98	125	120	113	85	86	129	150	87	87	78	86	88
3	2			51	94	96	85	84		63	94	154	86	65		68	79
3				71	86	67	55	60		78	86	107	67	52		60	59
4				41	48	43	65	33		55	45	133	42	36		29	43
4				66	58	64	30	26		35	38	85	34	38		43	52
4				66		64	30	26		35	38	85	34	38		43	52
5	1			79		76	75	49		57	61	93	57	55		59	57
5				107	75	91	122	85		103	89	143	86	120		102	87
5	3			103	107	130	103	85		115	69	99	104	80		94	97
6				95		93				96	91	203		61		105	87
	1						100	64					73				
6	2			153		132	86	102		90	118	133	76	91		179	107
6				157	125	140	92	122		107	120	149	91	125		131	83
7	1			138	130	141	122	86		109	118	148	109	122		118	98
7	2			103		87	87	67		86	95	136	98	80		103	98
7				73		73	60	48		75	70	120	73	49		64	67
8	1			88		83	92	74		96	87	122	77	64		98	71
8	2			120	109	128	122	76		94	107	143	97	105		122	97
8	3			128	79	130	89	69		76		130	75	109		128	94
9	1			113	94	125	78	92		87	95	122	87	68		90	76
9	2			120	100	128	111	92	94	94	92	154	88	106		97	80
9	3	76	111	125	94	95	120	107	118	119	113	158	86	143	133	134	102
10	1	66	117	100	105	92	111	111	97	95	84	146	91	97	105	103	97
10	2	63	125	112	111	115	103	80	107	105	91	136	94	113	98	100	92
10	3	59	102	86	102	83	67	88	102	103	82	141	63	90	134	116	79
11	1	61	122	75	120	74	130	111	100	98	78	139	75	69	97	96	62
11	2	77	135	121	120	119	128	79	109	109	115	162	107	58	103	110	98
11	3	62	100	114	116	88	95	100	109	110	105	168	111	85	145	140	103
12	1			88	121	61	118	74	95	92	145	139	97	82		102	86
12				87	107	103	81	70		101	91	130	82	83		105	83
12				85	93	67	61	56		71	91	122	58	119		152	70
13				108	92	74	91	50		83	103	109	62	84		92	78
13				74	120	71	92	95		109	110	120	92	104		112	102
13				65		53	88	44		75		102	77	59		73	65
14				100	107	92	120	68		99	115	117	76	76		104	87
14				157	113	100	111	100		103	128	153	98	141		131	100
14				136		59	113	83		97	105	114	82	105		110	100
15				98		75	91	86		78		132	95	85		97	72
15				161	92	57	105	48		79	103	115	92	120		128	79
																70	
15				137	111	85	66	34		72		121	71	58			87
16				92		92	89	69		85	97	120	88	65		102	68
16				133	120	125	133	90		96	116	133	95	95		115	94
16				122		115	118	92		87	120	125	75	121		113	109
17				111	103	110	100	60		66	107	93	75	99		79	98
17				128	97	75	130	61		91	85	159	97	85		97	95
17				100		98	75	69		105	112	167	85	152		114	112
18				85		78	87	48		82	108	107	71	84		110	97
18				88	93	93	111	62		87	76	145	88	148		100	88
18				59		69	129	65		94	75	142	69	84		78	85
19				59		83	106	56		93	90	104	86	81		75	85
19				109		102	83	52		93	107	140	109	60		67	76
19				85	95	115	65	75		86	121	122	90	114		67	77
20				72		107	102	52		72		122	78	95		82	59
20	2	53	108	105	82	72	105	53	80	80	103	113	76	69	95	107	85

# Performance Comparison Plots

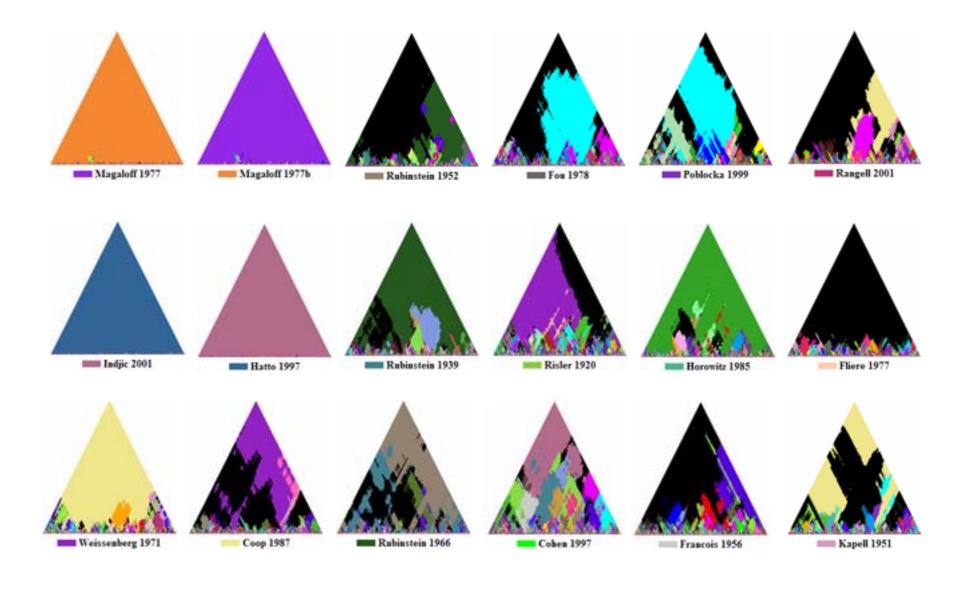


## Correlation Calculations



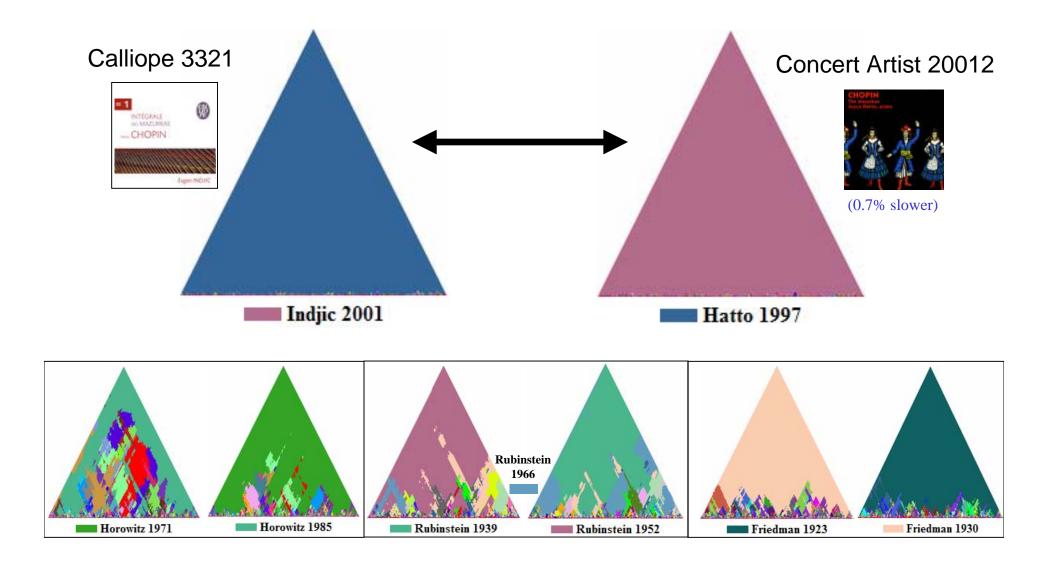
## Mazurka 17/4 Correlation

http://mazurka.org.uk/ana/pcor/mazurka17-4



# Hatto / Indjic

Two different performances from two different performers on two different record labels from two different countries...



## Hatto Mazurka Cassette

• Hatto mazurka performances released on 3 Cassettes in 1993.

(Fidelio FED4-TC-0116/8)

• Ernst Lumpe sent copy of cassettes to Christopher Howell (May 2007), and turns out they are also Indjic's 1988 performances.

• Slight differences between the CD / cassette releases, such as:

#### Mazurka 7/2 in A minor:

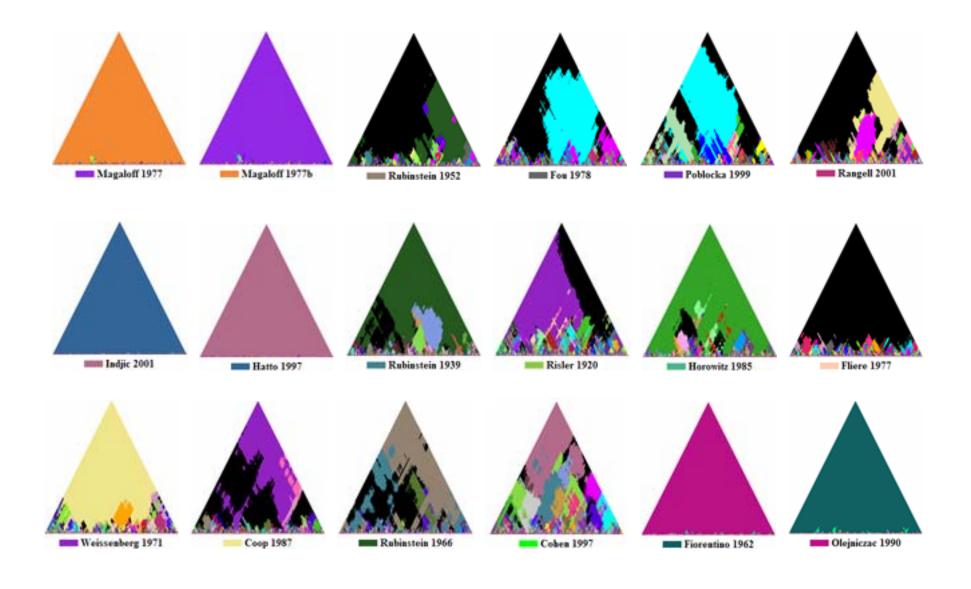
- 1988 Indjic: bars 1-16 not repeated
- 1993 Hatto: bars 1-16 repeated
- 2005 Hatto: bars 1-16 not repeated

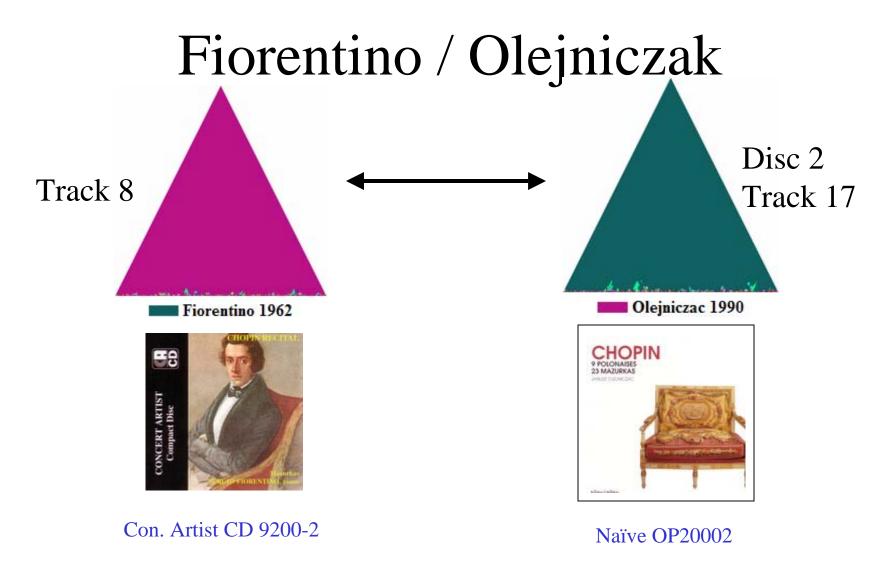
• Concert Artist mischief occurring since at least 1993, not 2002...

# 2. Fiorentino Fakes

## Mazurka 17/4 Correlations

http://mazurka.org.uk/ana/pcor/mazurka17-4





Also mazurkas 7/1, 7/3, 7/4, 24/4, 30/4 match between two CDs...

"I faked my wife's recordings to please her"

## **AudioDB**

- Developed by Michael Casey @ Goldsmiths College, University of London (now at Dartmouth College, Vermont).
- http://omras2.doc.gold.ac.uk/software/audiodb

```
QUERY=9065-12 WORK=24.4
-----
9065-12 2759 Fiorentino | 24.4 in B min
9100b-13 651 Olejniczak | 24.4 in B min
9081-05 56 Nezu | 24.4 in B min
9054-17 44 Smith | 24.4 in B min
9070-25 41 François | 24.4 in B min
```

## Fiorentino Ghost Performers

#### Sergio Fiorentino



Con. Artist CACD 9200-2 (2003)



Janusz Olejniczak Naïve/OPUS 111: OP20002 (1991)

Idil Biret Naxos 8.550358

(1990)

Anna Malikova

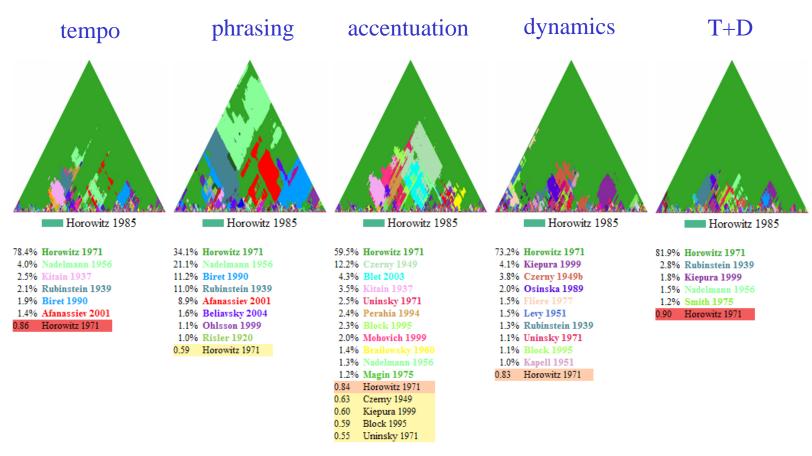
Classical Records CR-053 (1999)

# 3. Questionable Cortot

## Performance Features

- Visualizations not intended to find exact matches
- Designed for finding similar performances

Such as different performances by same pianist:



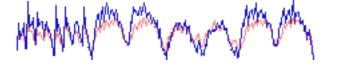
See: http://mazurka.org.uk/ana/pcor-perf

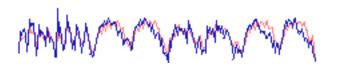
## Same Performer Identification

Mazurka	Query	Target	T	$T_{ m s}$	Td	D	TD	
17/4	Cze49	Cze49b	1	1	1	1	1	(live)
17/4	Cze49b	Cze49	1	1	1	1	1	(studio)
63/3	Fri23	Fri30	1	1	1	1	1	
63/3	Fri30	Fri23	1	1	1	1	1	
17/4	Hor71	Hor85	1	1	1	1	1	
17/4	Hor85	Hor71	1	1	1	1	1	
30/2	Fou78	Fou05	1	1	17	2	1	
30/2	Fou05	Fou78	1	1	6	2	1	
63/3	Uni32	Uni71	1	1	1	1	1	(40 years)
63/3	Uni71	Uni32	1	1	1	1	1	(10 years)

Fou 1978 30/2 tempo curve

Fou 2005 30/2 tempo curve

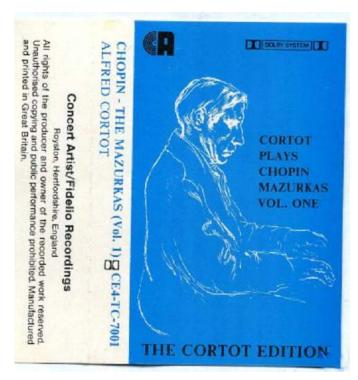




### Cortot Mazurkas

http://www.idilbiret.org/ENG/IBe13.htm

"A most important happening during this period [c1990] was the discovery in succession of some extraordinary Chopin recordings Biret had not known about by three great pianists; performances which greatly inspired her. First came the complete 51 Mazurkas by Alfred Cortot on three cassettes bought privately in the UK. These were recorded by Cortot in the late 1950s and never released for unknown reasons."



Concert Artist/Fidelio Recordings CE4-TC-7001



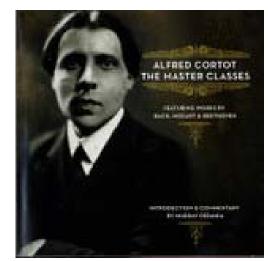
Idil Biret

## Cortot Mazurka Performances



Concert Artists CD 91802 (2005)

Complete (51) mazurka performances



Sony Classical S3K89698 (2005)

Partial performances of 5 mazurkas: 24/1, 24/2, 24/4, 30/1, 30/2





# Cortot Similarity Ranks

Mazurka	Query	Target	T	$T_{ m s}$	Tđ	D	TD
17/4	Cze49	Cze49b	1	1	1	1	1
17/4	Cze49b	Cze49	1	1	1	1	1
63/3	Fri23	Fri30	1	1	1	1	1
63/3	Fri30	Fri23	1	1	1	1	1
17/4	Hor71	Hor85	1	1	1	1	1
17/4	Hor85	Hor71	1	1	1	1	1
30/2	Fou78	Fou05	1	1	17	2	1
30/2	Fou05	Fou78	1	1	6	2	1
63/3	Uni32	Uni71	1	1	1	1	1
63/3	Uni71	Uni32	1	1	1	1	1
30/2	CorCA	CorMC	31	26	32	33	35
30/2	CorMC	CorCA	33	24	35	32	34

(36 performances of mazurka 30/2 used in comparison)

# Summary



Concert Artist Hatto recordings at least 80% fakes starting by 1993.



Concert Artist Fiorentino mazurka recordings -- All CA issues of Fiorentino after 1998 are now suspect.



Lots of smoke surrounding Concert Artist's Cortot mazurka recordings – "real" performer not yet identified.

## iTunes

- Brian Ventura Feb. 2007: put Hatto's CD of Liszt's Transcendental Etudes into iTunes, but it said CD was performed by László Simon...
- CDDB (1): developed by MIT student in early 1990's
- Disk ID number generated from track information:

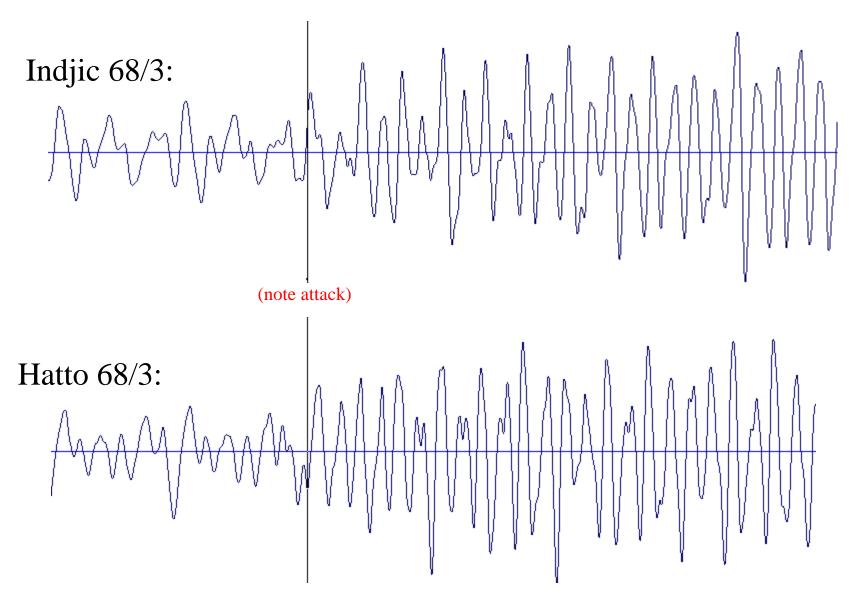
```
020e1a01
xxyyyyzz
zz (01) = track count
yyyy (0e1a) = duration in seconds (3610 sec.)
xx (02) = check sum (add start times of all tracks and % 256)
```

• Won't work in Hatto/Indjic mazurka case:

Tracks in different orders & different counts on 2 CDs:

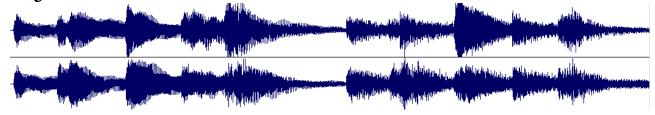
```
9610cb1c, d812021e (Hatto) bf11871d, 9f10741c (Indjic)
```

## Full-Zoom Waveform



# Zoomed-Out Waveform

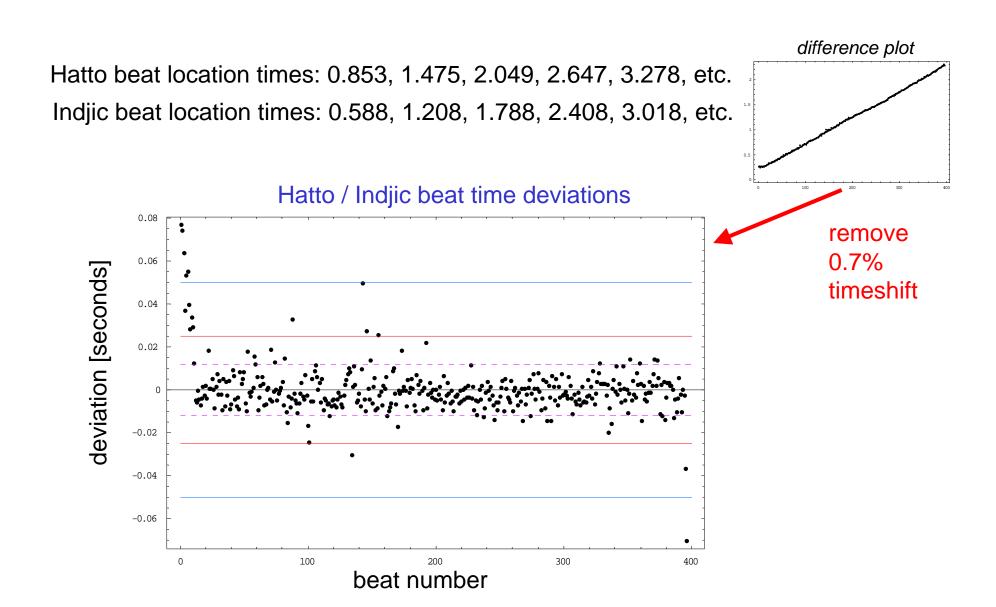
#### Indjic 68/3:



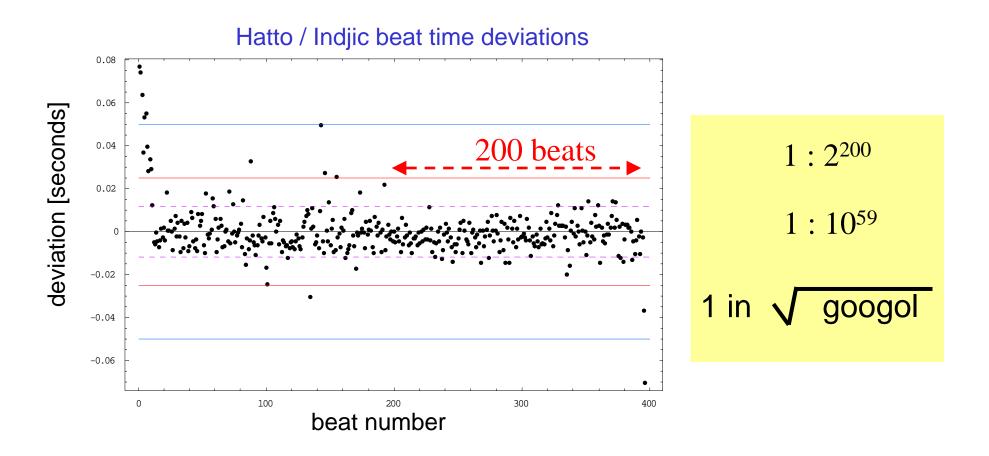
#### Hatto 68/3:



# Beat-Event Timing Differences



# Timing Difference Probability



probability that same performer can produce a second performance so closely is equivalent to one atom out of an entire star.