I never expected to write this book.

The main reason I was fascinated by chess composition was that I could think up new problems.
Even if I have solved or have written articles, that was always of minor importance.
And what I could not understand at all was a person who had collected thousands of problems for years.

In the summer of 1989, at the Bournemouth congress, I had ten-minute conversations with Jean-Marc Loustau and Branislav Djurašević. Jean-Marc had begun to run a new magazine, Phénix, and, having too much fairy material, he asked me to write an article about modern orthodox twomovers.

From that moment I started to collect cyclic problems.
Now, ten years later, you can see them here.

THREE WHITE MOVES: CYCLONE

SOLUTION

Let´s imagine a multiphase twomover.
Each phase has at least some of the following white elements: key (which is missing in the set play), threat (missing in a waiting problem), mates in variations (may also be missing sometimes).
The solution of such a problem can be easily written into a table.

			defence 1	defence 2	defence 3	
1st phase	**KEY**	**THREAT**	**MATE**	**MATE**	**MATE**	
2nd phase	**KEY**	**THREAT**	**MATE**	**MATE**	**MATE**	
3rd phase	**KEY**	**THREAT**	**MATE**	**MATE**	**MATE**	

WHITE MOVES CYCLE

The moves of White will be given as capital letters A, B, C, ... and the moves of Black as small letters a, b, c, ...
Then the cyclic change of three white elements is the shift of white moves ABC to BCA, while the black moves remain constant in all phases.

It is precisely this cycle of three or more white elements that is the subject of this book.
Furthermore, if we analyse how keys, threats and mates may be combined, we simply come to the system that I discovered when preparing the article for Phénix.

Again, the CYCLONE can be shown in a table.

3-FOLD CYCLONE	HORIZONTAL TYPE	VERTICAL TYPE	COMPLETE TYPE
MATES	1 Lačný cycle a b c **A B C** **B C A**	5 Rice cycle a b **A B** **B C** **C A**	9 complete Lačný cycle a b c **A B C** **B C A** **C A B**
THREATS & MATES	2 Shedey cycle a b **A B C** **B C A**	6 Ukrainian cycle a **A B** **B C** **C A**	10 complete Shedey cycle a b **A B C** **B C A** **C A B**
KEYS & MATES	3 Kiss cycle a b **A B C** **B C A**	7 Ceriani cycle a **A B** **B C** **C A**	11 complete Kiss cycle a b **A B C** **B C A** **C A B**
KEYS & THREATS	NON-EXISTENT	8 Reeves cycle - **A B** **B C** **C A**	NON-EXISTENT
KEYS & THREATS & MATES	4 Djuraševi ć cycle a **A B C** **B C A**	NON-EXISTENT	12 complete Djuraševi ć cycle a **A B C** **B C A** **C A B**

FIVE AND MORE WHITE MOVES: CYCLONE AND HURRICANE

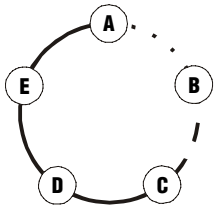
If we have at least five White elements, new and mostly interesting questions arise. Some of them are not yet answered, and present-day knowledge in this field of combinations cannot give satisfactory answers to many of them.

What is going on.

2-PHASE CYCLES

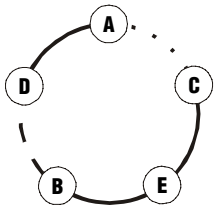
Let us first imagine two-row (or two-column) cycles only. That means cycles 1 to 8.
It is very simple to spread the three- or four-fold cycle into a larger one. And non-cycles could be excluded simply, too. Besides, for example a six-fold table could be made of two three-fold cycles. That would be cyclic of course, but it belongs to three-fold cycles, not to six-fold ones.

A slight but solvable anomaly begins with the Djurašević cycle, where the number of cyclic possiblities grows with the increasing number of white moves. This is due to the different DISTANCE BETWEEN KEY AND THREAT. (Also the number of non-cyclic tables increases, but that is of no importance here.)



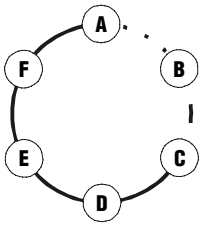
		a	b	c
A	**B**	**C**	**D**	**E**
B	**C**	**D**	**E**	**A**

5-fold cycle / distance 1



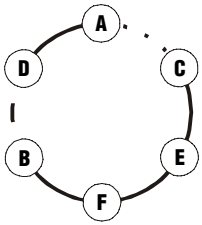
		a	b	c
A	**B**	**C**	**D**	**E**
C	**D**	**E**	**A**	**B**

5-fold cycle / distance 2



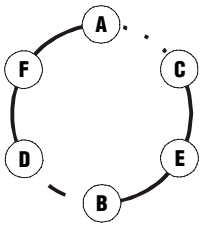
		a	b	c	d
A	**B**	**C**	**D**	**E**	**F**
B	**C**	**D**	**E**	**F**	**A**

6-fold cycle / distance 1



		a	b	c	d
A	**B**	**C**	**D**	**E**	**F**
C	**D**	**E**	**A**	**F**	**B**

6-fold cycle / distance 2



		a	b	c	d
A	**B**	**C**	**D**	**E**	**F**
C	**D**	**E**	**F**	**B**	**A**

6-fold cycle / distance 3

The number of cyclic possibilities can also be calculated very simply.

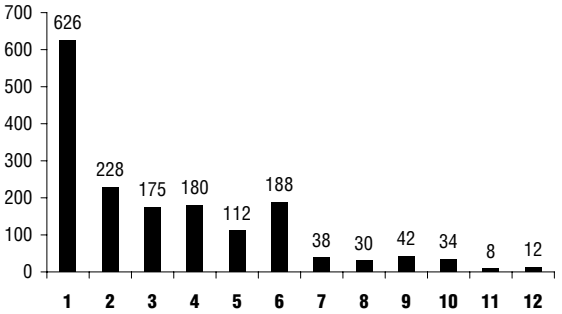
With an increase in the distance between key and threat, the maximum distance is in half a circle (in the axis of symmetry). So it is simple to generalize the number of cyclic possiblities (c) depending on the number of white elements (n):

c=In/2I

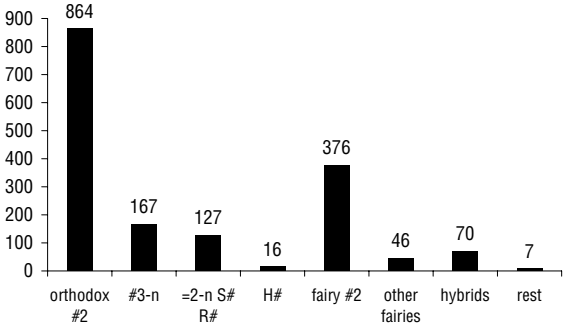
if n=3, then c=1
if n=4, then c=2
if n=5, then c=2
if n=6, then c=3
if n=7, then c=3
if n=8, then c=4
etc.

STATISTICS

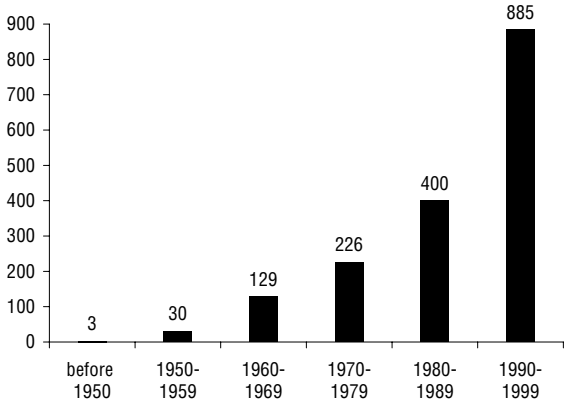
	before 1950	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	total
1 Lačný cycle	1	30	98	156	161	180	626
2 Shedey cycle	0	0	3	12	23	190	228
3 Kiss cycle	0	0	0	1	58	116	175
4 Djurašević cycle	0	0	0	0	28	152	180
5 Rice cycle	0	0	21	33	12	46	112
6 Ukrainian cycle	0	0	3	20	81	84	188
7 Ceriani cycle	2	0	0	2	5	29	38
8 Reeves cycle	0	0	1	0	3	26	30
9 complete Lačný cycle	0	0	2	2	23	15	42
10 complete Shedey cycle	0	0	1	0	5	28	34
11 complete Kiss cycle	0	0	0	0	1	7	8
12 complete Djurašević cycle	0	0	0	0	0	12	12
total	3	30	129	226	400	885	1673



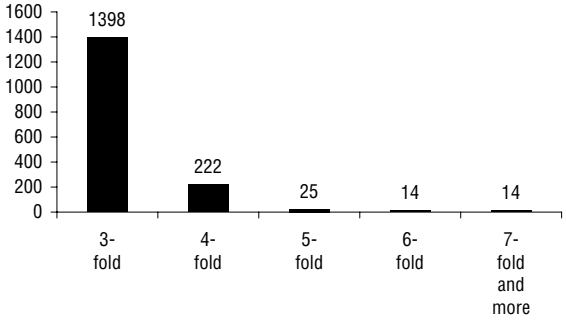
PROBLEMS BY CYCLES 1 TO 12



PROBLEMS BY STIPULATIONS



PROBLEMS BY DECADES



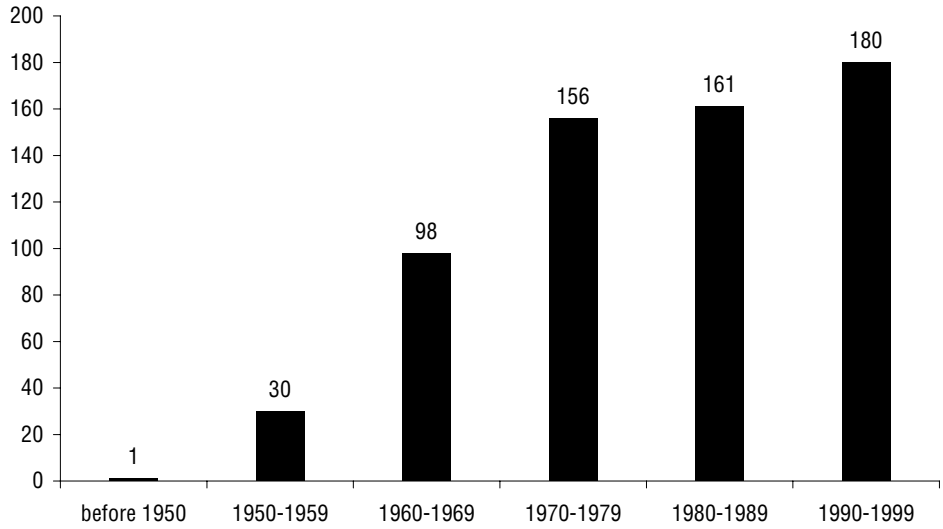
PROBLEMS BY WHITE ELEMENTS IN CYCLE

1 Lačný cycle

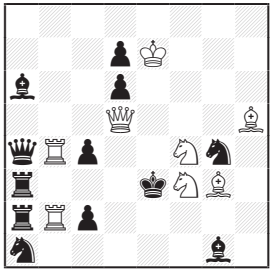
	a	b	c
	A	**B**	**C**
	B	**C**	**A**

"For me as a composer, love of my life is the Lačný theme."
(Milan Velimirović: "Shift if Shift Can", A Comprehensive Overview of Lačný theme, Mat Plus summer-autumn 1995)

	Pioneer problem	Pioneer orhtodox twomover without twins
3-fold	**1** Ľ. LAČNÝ 1949	**1** Ľ. LAČNÝ 1949
4-fold	**530** Ľ. LAČNÝ 1955	**530** Ľ. LAČNÝ 1955
5-fold	**620** M. VELIMIROVIĆ 1969	**610** P. GVOZDJÁK 1999
6-fold	**624** J. VALUŠKA 1969	x
7-fold and more	**625** N. SHANKAR RAM 1986	x



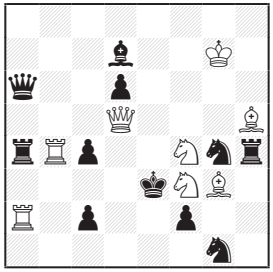
Ľudovít LAČNÝ
Przepiórka MT, C 1.11.1949
1 (C+)



#2 (8+12)

		Sh2	c1Q	c3
---		**Qd4**	**Sg2**	**Qe4**
Sd2!	Sf1	**Sg2**	**Qe4**	**Qd4**

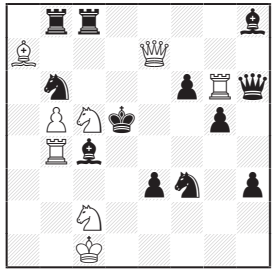
Milan VELIMIROVIĆ
after L. Lačný
Mat Plus, summer-autumn 1995
3 (C+)



#2 (8+11)

		Sh2	c1Q	c3
---		**Qd4**	**Sg2**	**Qe4**
Sd2!	Sf1	**Sg2**	**Qe4**	**Qd4**

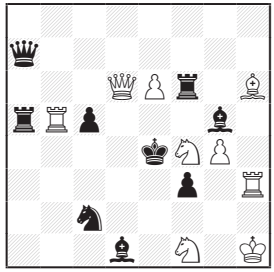
Nikolai GERASIMENKO
V. MARINENKO
2nd Prize
Leninskaya poezia, 1970
5 (C+)



#2 (8+12)

		Bc4~	f5	Sa4
---		**Sxe3**	**Qd6**	**Qe6**
Se4!	Sc3	**Qd6**	**Qe6**	**Sxe3**

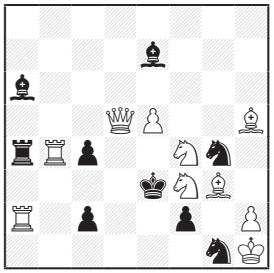
Yuri KUTUKOV
Hlas ľudu, 29.12.1983
7 (C+)



#2 (9+9)

		Bh4	f2	c4
---		**Qd5**	**Sd2**	**Qe5**
Sd3!	Sf2	**Sd2**	**Qe5**	**Qd5**

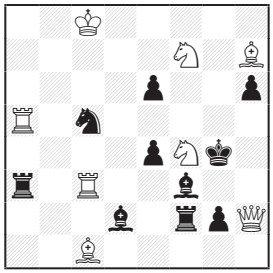
Jean OUDOT
after L. Lačný
Le Probleme, 1960
2 (C+)



#2 (10+9)

		Sxh2	c1Q	c3
---		**Qd4**	**Sg2**	**Qe4**
Sd2!	Sf1	**Sg2**	**Qe4**	**Qd4**

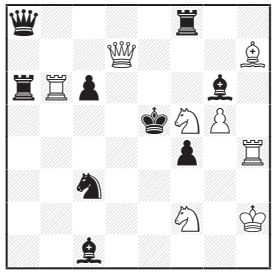
V. SOLDATENKO
6th-8th Honourable Mention
Shakhmaty (Riga), 6.1963
4 (C+)



#2 (8+10)

		Bf3~	Bxc3	Sd7
---		**Qg3**	**Qh3**	**Sxh6**
Sh5!	Sf6	**Qh3**	**Sxh6**	**Qg3**

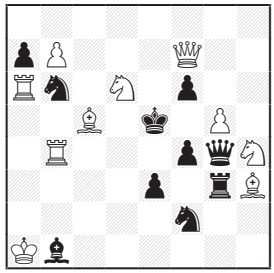
Talip AMIROV
I. IVANOV
Sächsische Zeitung, 1982
6 (C+)



#2 (8+9)

		Bh5	f3	c5
---		**Qd6**	**Sd3**	**Qe6**
Sd4!	Sf3	**Sd3**	**Qe6**	**Qd6**

Rodolfo PRETE
Sinfonie Scacchistiche, 1976
8 (C+)



#2 (10+10)

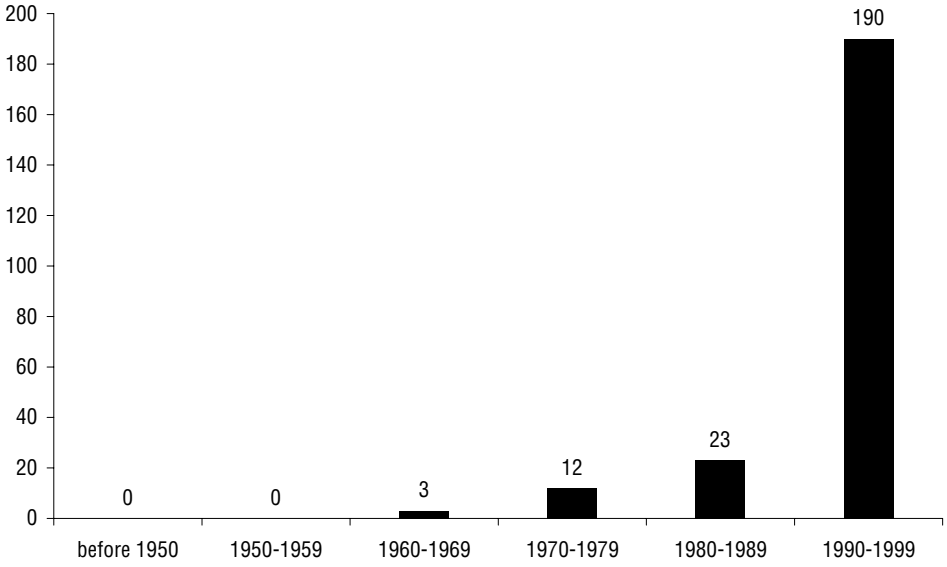
		Qd1	Se4	Sc8
---		**Qe6**	**Sg6**	**Bd4**
Sdf5!	Qc7	**Sg6**	**Bd4**	**Qe6**

2 Shedey cycle

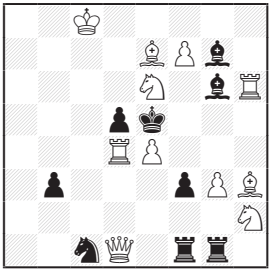
	a	b
A	**B**	**C**
B	**C**	**A**

"It is not usual to hold a composing tourney at the age of 30. But let me break the rule and show you one of my favourite themes that is not much older than myself."
(Peter Gvozdják, lecture about Shedey cycle (and announcing the theme tourney), at the Belfort congress, summer 1994)

	Pioneer problem	Pioneer orhtodox twomover without twins
3-fold	**709** S. SHEDEY 1964	**709** S. SHEDEY 1964
4-fold	**844** N. SHANKAR RAM 1986	**821** Š. SOVÍK 1993
5-fold	**850** P. GVOZDJÁK 1994	**849** P. GVOZDJÁK 1995
6-fold	**853** P. GVOZDJÁK 1995	x
7-fold and more	x	x



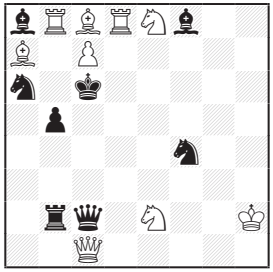
Zoltán LABAI
Anatoly SLESARENKO
original
663 (C+)



#2 (11+9)

		dxe4	Bxe4	
Kd7?	**Sg4**	**Rd5**	**Bd6**	-Rxg3!
Qxf3!	**Rxd5**	**Bd6**	**Sg4**	
Qe1?	Rxd5	Qa5	Rh5	-Se2!

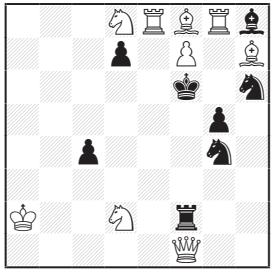
László LINDNER
2nd Honourable Mention
Tungsram, C 31.3.1978
665 (C+)



#2 (9+8)

		Sd5	Sc5	
Bf2?	**Rb6**	**Bd7**	**Sd4**	-Bc5!
Rd2!	**Bd7**	**Sd4**	**Rb6**	

Wouter MEES
Probleemblad, 1.-2.1988
667 (C+)



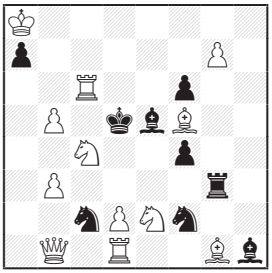
#2 (9+8)

		Sf5	Se5	
Re2?	**Be7**	**Rg6**	**Se4**	-Se3!
Bc2!	**Rg6**	**Se4**	**Be7**	
Re4?	Be7		!	
Bb1?	Rg6	!		

+ Dombrovskis

	a	b
A	**B**	**C**
B	**C**	**A**

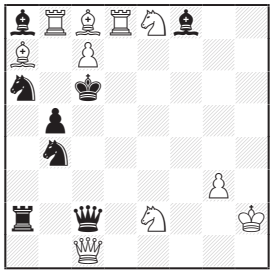
Juraj BRABEC
1st Prize
Šachové umenie, 8.1978
664 (C+)



#2 (12+9)

		Sd3	Sd4	
d3?	**Be6**	**Rc5**	**Sc3**	-Bd6!
d4!	**Rc5**	**Sc3**	**Be6**	

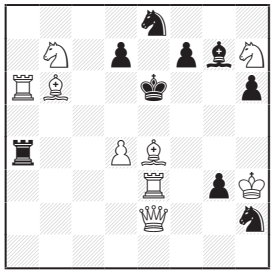
Ivan KISS
after L. Lindner
2nd HM (Pravda-Tirnavia 1983-84)
Pravda, 14.10.1983
666 (C+)



#2 (10+8)

		Sd5	Sc5	
Bf2?	**Rb6**	**Bd7**	**Sd4**	-Bc5!
Rd2!	**Bd7**	**Sd4**	**Rb6**	

Milan VELIMIROVIĆ
2nd Prize
Revista de Sah, 1970
668 (C-)



#2 (9+9)

		d5	f5	
Qh5?	**Bd5**	**Bf5**	**Qxe8**	-d6!
Qb5!*	**Bf5**	**Qxe8**	**Bd5**	

*cooks Bg6+ Bc2+ Bb1+

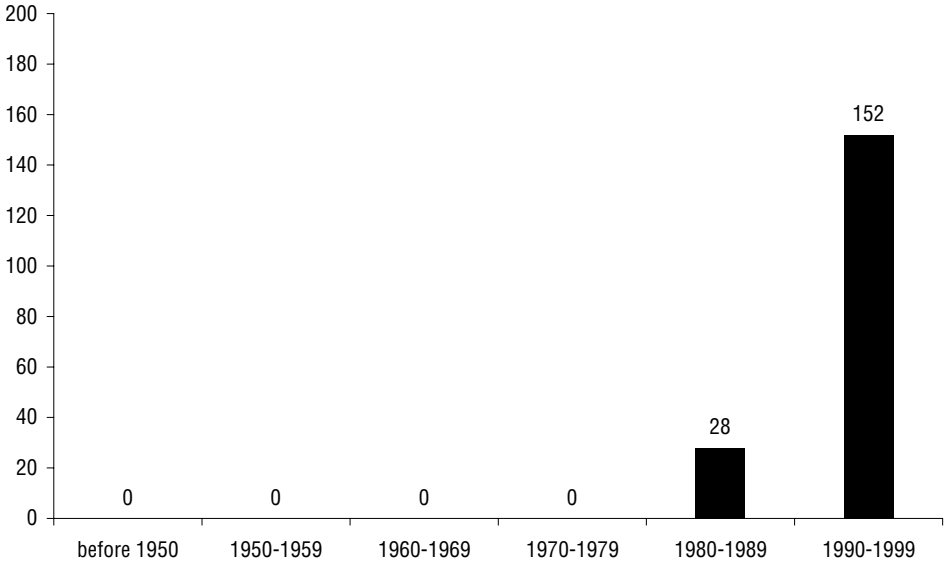
664, 665: Two of the most impressive mechanisms.

4 Djurašević cycle

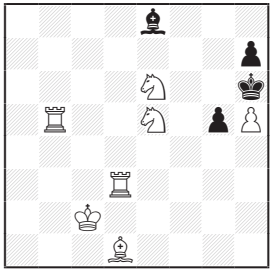
		a
A	B	C
B	C	A

"B. Formánek had prepared a lecture on this theme for Budapest, thinking he would show the first examples. But discussions showed that the Yugoslav composer Branislav Djurašević had been interested in it for some years."
(Michel Caillaud, Jean-Marc Loustau, Jacques Rotenberg: "The Djurašević Theme", Phénix, 10.1988)

	Pioneer problem	Pioneer orhtodox twomover without twins
3-fold	**1113** B. DJURAŠEVIĆ 1981	**1030** J. ROTENBERG, J.-M. LOUSTAU, M. CAILLAUD 1988
4-fold / distance 1	**1167** F. SABOL 1990	x
4-fold / distance 2	**1171** Ľ. LAČNÝ 1988	**1171** Ľ. LAČNÝ 1988
5-fold / distance 1	**1201** J. LŐRINC 1993	x
5-fold / distance 2	**1202** R. ASCHWANDEN, P. GVOZDJÁK 1999	x
6-fold / distance 1	**1204** D. PAPACK 1995	x
6-fold / distance 2	**1205** R. ASCHWANDEN 1999	x
6-fold / distance 3	**1207** R. ASCHWANDEN 1999 **1206** P. GVOZDJÁK 1999	x
7-fold / distance 1	**1208** N. N. 1998	x
7-fold / distance 2	x	x
7-fold / distance 3	x	x
8-fold and more	**1209** P. GVOZDJÁK 1997	x



Jacques ROTENBERG
Jean-Marc LOUSTAU
Michel CAILLAUD
Special Prize
Phénix, 10.1988
(version 12.1994)
1030 (C+)

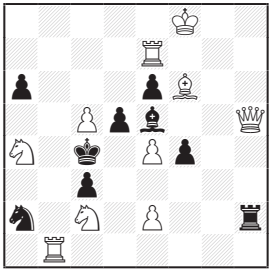


#2 (7+4)

		Bg6	
hxg6ep?	**Rh3**	**Sg4**	-*!
Rh3!	**Sg4**	**hxg6**	

*refutation: last move might not be g7-g5

Vasil DYACHUK
Práca, 26.6.1999
1032 (C+)

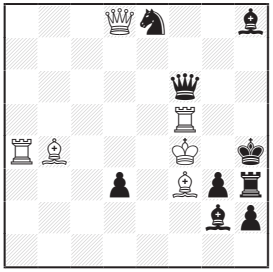


#2 (10+9)

		Bd6	
cxd6ep?	**Rc7**	**Sb6**	-*!
Rc7!	**Sb6**	**cxd6**	
---		Sa3	

*refutation: last move might not be d7-d5

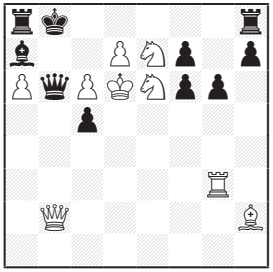
Vasil DYACHUK
after G. Hicks
original
1034 (C+)



#2 (6+9)
B: Bg2-c2

			Qe7
A	**Be7!**	**Ke3**	**Rh5**
B	**Ke3!**	**Rh5**	**Bxe7**

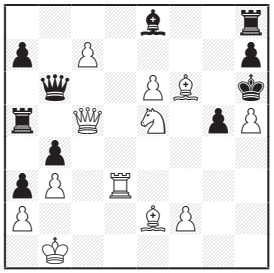
Geoffrey HICKS
original
1036 (C+)



#2 (9+10)
B: Pf7-f5

			Qb3
A	**Rb3!**	**Kd5**	**c7**
B	**Kd5!**	**c7**	**Rxb3**

Michel CAILLAUD
Jean-Marc LOUSTAU
Jacques ROTENBERG
Phénix, 10.1998
1031 (C+)

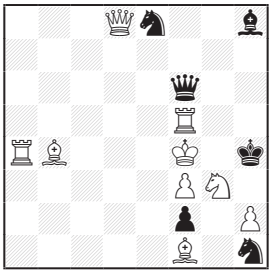


#2 (12+10)
after 23 moves*

		Bg6	
hxg6ep!	**Rh3**	**Sg4**	
Rh3?	**Sg4**	**hxg6**	-Qxe6!

1031
*Proof game:
1Sa3 c5 2b3 Sc6 3Bb2 d5 4c4 Bd7
5Qc2 b5 60-0-0 Qb6 7cxd5 Rd8 8dxc6 f5
9c7 Kf7 10Kb1 Be8 11Sf3 Rxd2 12g4 Rxe2
13Rd3 Sf6 14Bxf6 Re5 15h4 Kg6 16h5+ Kh6
17Rh4 b4 18gxf5 bxa3 19Rb4 cxb4 20Be2 Ra5
21Se5 e6 22fxe6 Bc5 23Qxc5 g5!

Geoffrey HICKS
dedicated to N. Macleod*
1st Prize
The Problemist, 7.1992
1033 (C+)

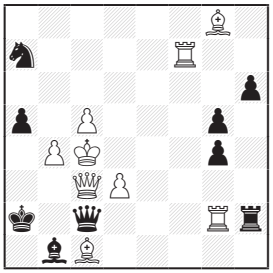


#2 (9+6)
B: Sh1-b3

				Qe7
A	**Be7!**	**Ke3**		**Rh5**
B	**Ke3!**	**Rh5**		**Bxe7**

*Macleod´s joint pioneer "Lačný"

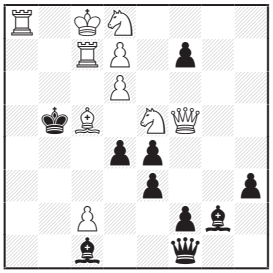
Vasil DYACHUK
Shakhmatnaya kompositsiya, 1999
1035 (C+)



#2 (9+9)
B: Sa7<>Ph6

			Qf2	axb4
A	**Rff2!**	**Kd4**	**Qa3**	Kxb4
B	**Kd4!**	**Qa3**	**Rfxf2**	Rxa7

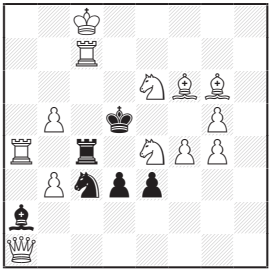
Štefan SOVÍK
original
1037 (C+)



#2 (10+10)
B: Pf2-b2

			Qc4
A	**Sc4!**	**Ba3**	**Rb7**
B	**Ba3!**	**Rb7**	**Sxc4**

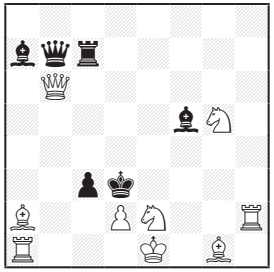
Emanuel NAVON
2nd Honourable Mention
20. TT Mat, C 31.5.1990
1038 (C+)



#2 (13+6)
B: Pg5-e5

			Rxe4
A	**Bf7!**	**S6c5**	**Rd7**
B	**S6c5!**	**Rd7**	**Bf7**

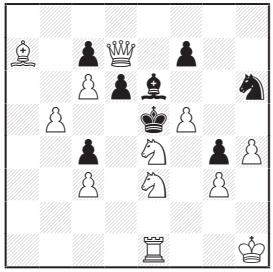
Vasil DYACHUK
Šachové umenie, 7.1999
1040 (C+)



#2 (9+6)
B: wPc3

			Rxc3
A	**dxc3!**	**0-0-0**	**Sf4**
B	**0-0-0!**	**Sf4**	**dxc3**

Štefan SOVÍK
Schach, 11.1987
1042 (C+)



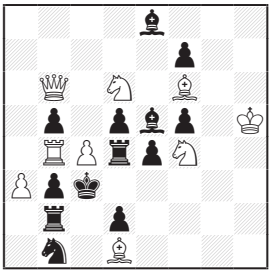
#2 (12+8)
B: Qd7-h5

			Bd5
B	**Sd5!**	**Sef6**	**Bd4**
A	**Sf6!**	**Bd4**	**Sexd5**

	a
A	**C**
B	**A**

> 4. Djuraševi ć cycle	**1030**-1209
>> 3-fold	**1030**-1149
>>> orthodox #2	**1030**-1062
>>>> no twin	**1030**-1032
>>>> twins	**1033**-1062
>>>>> no bK defence	**1033**-1059
>>>>>> various mechanisms	**1033**-1052

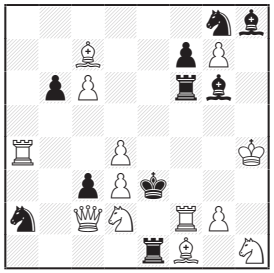
Hubert GOCKEL
2nd Commendation
diagrammes, 4.-6.1995
1039 (C+)



#2 (9+13)
B: Pb3-d3

			Rc2	Rxc4	Bxd6
A	**Rxb5!**	**Qa5**	**Rxb3**	Qe3	Qxd4
B	**Qa5!**	**Rb3**	**Rxb5**	Rxc4	Sxd5

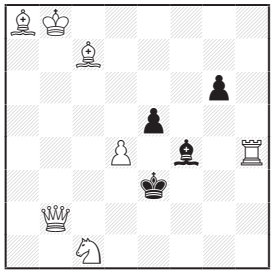
Zoltán LABAI
dedicated to A. Pituk-95
original
1041 (C+)



#2 (13+10)
A: Qc2<>Pg7 B: Pc6-g4

			Rxf2	Rxc6
A	**d5!**	**Bxb6**	**Sc4**	Bf4
B	**Bxb6!**	**Sc4**	**d5**	Rf3

Peter GVOZDJÁK
4th Prize
20. TT Mat, C 31.5.1990
1043 (C+)



#2 (7+4)
B: wPe5

			Bxe5
A	**dxe5!**	**Bb6**	**Qe2**
B	**Bb6!**	**Qe2**	**dxe5**

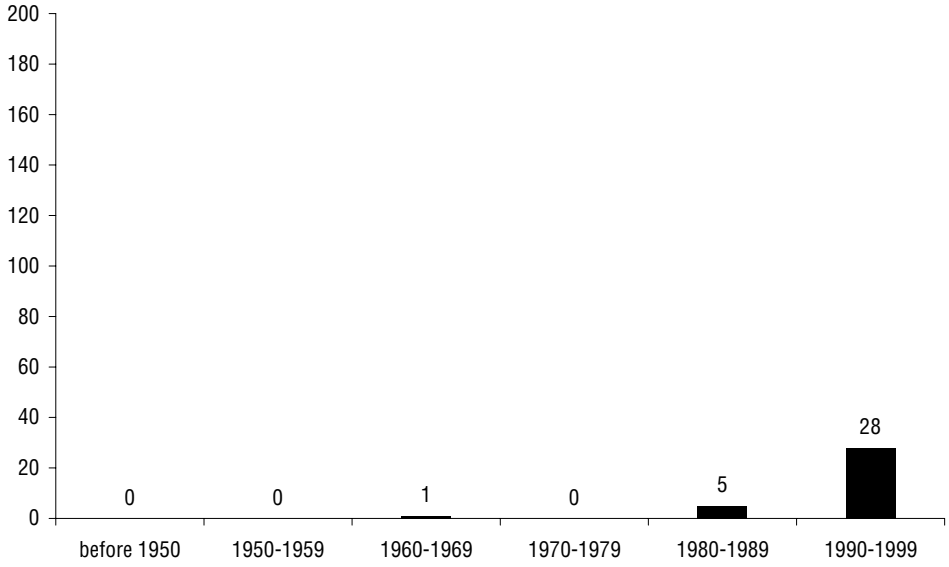
1030-1032: Yet there is no other twinless mechanism but this trick.
1033-1052: This large group is organized by type of b defending unit.

10 complete Shedey cycle

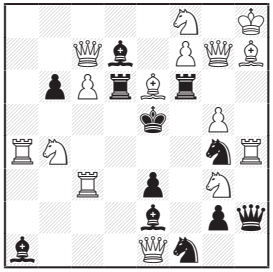
"I have got the matrix, but it seems impossible to finish it..."
(Ludovít Lačný, showing me his idea with promoted force, about autumn 1992)

	a	b
A	**B**	**C**
B	**C**	**A**
C	**A**	**B**

	Pioneer problem	Pioneer orhtodox twomover without twins
3-fold	**1624** Ľ. LAČNÝ 1969	**1620** Ľ. LAČNÝ, P. GVOZDJÁK 1993
4-fold	**1648** N. SHANKAR RAM 1987	x
5-fold	**1651** Ľ. LAČNÝ 1999	x
6-fold	x	x
7-fold and more	**1652** N. SHANKAR RAM 1995	x



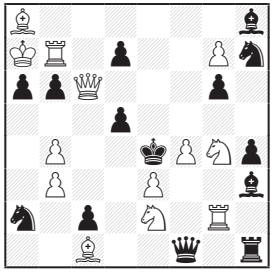
Ľudovít LAČNÝ
Peter GVOZDJÁK
1st Prize
Formánek-60 JT, C 6.6.1993
1620 (C+)



#2 (15+12)
Promoted force

		Kd4	Kf4	
Qxe2?	**Sd3**	**Qxf6**	**Qxd6**	-Bxe6!
Bxg4?	**Qxf6**	**Qxd6**	**Sd3**	-Bf5!
Se4!	**Qxd6**	**Sd3**	**Qxf6**	

Peter GVOZDJÁK
dedicated to Lucia, Barbora, Dorota
original
1622 (C+)

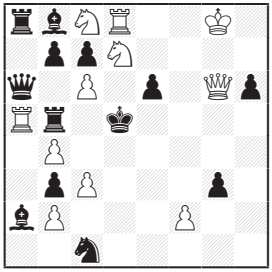


#2 (13+14)
3 solutions

		Kd3	Kf5	
g8B?	**Qxd5**	**Qxg6**	**Qxc2**	-7*!
Sg1?	**Qxg6**	**Qxc2**	**Qxd5**	-7*!
Sh2?	**Qxc2**	**Qxd5**	**Qxg6**	-9*!
Qxd5!	+			
Qxg6!	+			
Qxc2!	+			

*number of refutations

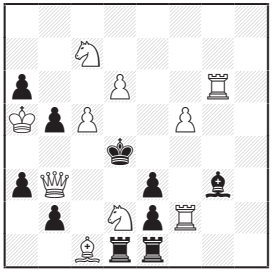
Ľudovít LAČNÝ
4th Prize
TT Pravda, C 1.11.1969
1624 (C+)



#2 (11+13)
B: bSb5 Pb3-d3 C: bSb5 Pb7-b6

			Kc4	Kxc6
A	f4!	**Se5**	**Qe4**	**Qxe6**
B	f3!	**Qe4**	**Qxe6**	**Se5**
C	Kf7!	**Qxe6**	**Se5**	**Qe4**

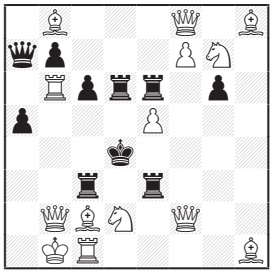
Ján VALUŠKA
5th Place
Šaľa-Zvolen, C 31.7.1988
1626 (C+)



#2 (10+10)
B: reflect round "d"

			Kxc5	Ke5	
A	Rxg3?	**Qxe3**	**Qd5**	**Qc3**	-Rxd2!
A	Sb1!	**Qd5**	**Qc3**	**Qxe3**	
B	Rxa3?	**Qxc3**	**Qe3**	**Qd5**	-Rxd2!
B	Sf1!	Qd5	Qxc3	Qe3	

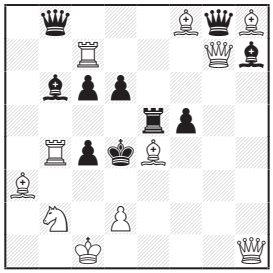
Peter GVOZDJÁK
Special Prize
Stošić MT, C 1.10.1995
1621 (C+)



#2 (14+10)
Promoted force

		Kc5	Kxe5	
Re1?	**Qxe3**	**Sxe6**	**Qxc3**	-R6xe5!
Qd8?	**Sxe6**	**Qxc3**	**Qxe3**	-Rf6!
Bb3!	**Qxc3**	**Qxe3**	**Sxe6**	

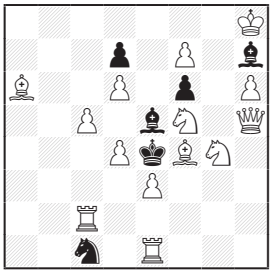
Emil KLEMANIČ
4th Prize
Formánek-60 JT, C 6.6.1993
1623 (C+)



#2 (11+10)
B: Bf8-d8 C: Be4-d3
Promoted force

			d5	Kc5
A	Bxc6!	**Qhg1**	**Qxe5**	**Rxc4**
B	Rd7!	**Qxe5**	**Rxc4**	**Qhg1**
C	Rf7!	**Rxc4**	**Qhg1**	**Qxe5**

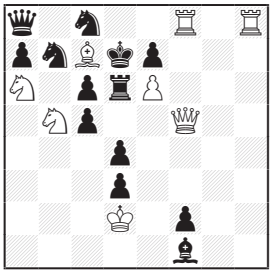
Vladimir MOIKIN
Special Prize
Sovetsky Sakhalin, 1.12.1989
1625 (C+)



#2 (14+6)
B: Rc2-b8 C: Rc2-g7 Sf5-d8

			Kf3	Kd5
A	Sg7!	**Qh1**	**Sxf6**	**Bb7**
B	Re8!	**Sxf6**	**Bb7**	**Qh1**
C	Rd1!	**Bb7**	**Qh1**	**Sxf6**

Jacques ROTENBERG
Christian POISSON
Michel CAILLAUD
1st Prize
Gvozdják-30 JT, C 16.11.1995
1627 (C+)



#2 (8+13)
Anti-Circe type Cheylan

		Sd8	Qb8	
Bd8?	**Sb8**	[bSb8] **Rd8**	**Kxd3** [wKe1]	-Sb6!
Bb8?	**Rd8**	**Kxd3** [wKe1]	[bQd8] **Sb8**	-Bg2!
Qxf2! [wQd1]	**Kxd3** [wKe1]	**Sb8**	**Rd8**	

CONTENTS

2 Shedey cycle 115

3 Kiss cycle 149

4 Djurašević cycle 175

5 Rice cycle 203