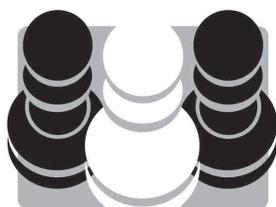


A Matter of Endgame Technique

By

Jacob Aagaard



Quality Chess
www.qualitychess.co.uk

Contents

	You don't have to read everything!	9
	Exercises to Chapter 1	15
	Chapter 1 – Endgame Elements	27
1	Promotion and underpromotion	27
2	Underpromotion	31
3	Unstoppable promotion	40
4	The importance of passed pawns	42
5	Using passed pawns as a distraction	44
6	Creating passed pawns	45
7	Protected passed pawn	52
8	Breakthrough	55
9	Distant passed pawns	58
10	Creating passed pawns	62
11	Spread passed pawns can be stronger than connected pawns	66
12	Eliminate all the pawns	68
13	King blocking the passed pawn	73
14	Attacking the pawns from behind	74
15	Pawns in the way	74
16	Zugzwang	82
17	Triangulation	86
18	Losing a tempo	90
19	Unnecessary pawn moves	94
20	Mutual zugzwang	99
21	Opposition	102
22	Distant opposition	103
23	Corresponding squares	110
24	Shouldering	113
25	Provoking weaknesses	119
26	Domination	121
27	Mate in the endgame	124
28	Defending against attacks on the king	138
29	Stalemate	138
30	Stalemate escapes	143
31	Shortest stalemate	148
32	Newest shortest stalemate	148

Contents

33	Perpetual rook	149
34	Perpetual check and pawn endings	153
35	Counterplay	154
36	Fortresses and passive defence	156
37	Positional draw	159
38	The 50-Move Rule	162
39	Activate the strongest piece first	164
40	King activity	166
41	King penetration	169
42	King flexibility	171
43	Cutting off the king	175
44	Checks	178
45	The king belongs in front of the passed pawn	179
46	Bishop on one diagonal	182
47	Bishop on two diagonals	183
48	The power of the two bishops	189
49	Knight paths	204
50	Knight in the corner	204
51	Kings are better than knights	206
52	The fourth phase	207
53	Simplifications in the fourth phase	218
54	Weaknesses	222
55	The principle of two weaknesses	223
56	Prophylaxis	226
57	The Shankland Rule	230
58	Schematic thinking	231
59	Fighting for key squares	234
60	Knowing when to act and when to squeeze	239
61	Timing	242
62	The importance of the critical moment	250
63	Anticipating the race	255
64	Active or passive defence	258
65	Capablanca shuffling	275
66	Winning without doing	277
67	Plus equal	280
68	Small details	283
69	Mechanical manoeuvre	290
70	The endgame is deeply tactical	294

71	Deep calculation	298
72	Deep resources	299
73	Miracle escapes	300
	Exercises to Chapter 2	307
	Chapter 2 – Lack of Technique	311
1	Opposition and triangulation	311
2	Being practical	317
3	Distractions	321
4	Pattern recognition – Knights and flank pawns	325
5	Basic principle of exchanges	327
6	Maximise your advantage before striking	347
7	Domination	348
8	Micro-domination	356
9	Cutting off the king	362
10	Shouldering	364
11	Allowing counterplay	367
	Exercises	400
	Solutions	402
12	Necessary and unnecessary complications	409
13	Overpressing	416
14	Passed pawns must be pushed	420
15	Losing control	424
16	Pushing passed pawns too far	428
17	Hanging on to material	431
18	Overestimating dynamics	433
19	Endgame theory	440
20	Surprising endgame theory	447
	Exercises to Chapter 3	449
	Chapter 3 – Fortresses	451
1	Types of fortresses	451
2	Fortress as a defensive strategy	452
3	Ways to break fortresses	453
4	Wrong bishop for the corner square	454
5	A shouldering fortress	458
6	A fortress that relies on counterplay	459
7	Fortress as a surprise defence	460
8	The role of pawns in breaking fortresses	466
9	Six fortress exercises	471
10	Solutions	473
11	Queen vs rook and pawn	479

Contents

12	Expanding on a generic fortress	480
13	Fortress in a complicated setting	481
14	Control over one colour of squares	486
15	A stalemate and restriction fortress	488
16	Fortress as a defensive strategy	489
17	Breaking down a fortress	494
18	Brute force to break down a fortress	500
19	Breaking a fortress slowly	502
	Five advanced examples	505
20	Blockade	505
21	Fighting to stay alive	509
22	A fluid fortress	514
23	A restriction fortress	527
24	Understanding fortresses	534
	Exercises to Chapter 4	545
	Chapter 4 – Rook vs Bishop	547
1	A fortress breaking – filmed backwards	547
	Symmetrical pawns	555
2	Symmetrical h-pawns on the 4th and 5th rank	555
3	Two symmetrical pawns	560
4	Three pawns on the same flank	563
5	f-pawns only	564
6	g-pawns in the middle	565
7	The game	568
8	Asymmetrical pawns	580
9	Flank pawns	583
10	Looking back...	586
11	Adjacent pawns	589
12	A few games in conclusion	594
13	A passed pawn each	615
	Exercises to Chapter 5	621
	Chapter 5 – Exchanges	623
1	Going deep	625
2	Comparing resulting endings	632
3	Same story – more or less	644
4	Guidelines for exchanges	646
5	A guideline with more value	646
6	Exchanging one set of rooks only	648

7	Transition into a winning ending	662
8	Exchanging queens	664
9	Pawn exchanges	668
10	Don't exchange your opponent's weaknesses	676
11	Transposing into pawn endings	677
12	Looking for the pawn ending	678
13	Broadening	681
14	Loss of flexibility	684
15	The transformation of advantages through exchanges	686
16	Exchanges/Prevention of counterplay	690
17	Clarity	691
18	Exchanging for penetration	699
19	Exchanges for king safety	701
20	On the other hand	702
21	A complex example	704
22	Exchanges from the defender's point of view	714
23	Exchanges to make a draw	716
24	Relying on strategic principles	721
	Exercises to Chapter 6	731
	Chapter 6 – Illustrative Games	739
1	An illustration of opening play	740
2	Fighting for key squares	745
3	Exploiting an advantage	762
4	The annoying small details	772
5	Fortress	779
6	Breaking a fortress	790
7	Plus equal	803
8	Exchanges and the flow of the game	814
9	Exchanges and clarity	828
10	Creating passed pawns	841
11	Rook vs two minor pieces	845
12	Rook vs two minor pieces – another example	856
13	The bishop pair	864
14	Attack in the endgame	872
15	Timing	878
	Name Index	890
	Bibliography	896

You don't have to read everything!

Looking at a nine hundred page book may be a daunting experience. On the one hand, it is a lot of information, but on the other, it is a big challenge as well. At our online academy, www.killerchesstraining.com, we have daily classes, leading to 40-50 hours of chess training available each month. If you are a teenager with a deep passion for chess, this may be the greatest thing ever. But if you are a working professional, you may feel you are missing out, because there is no way you can ever watch even half the classes. Most find their own rhythm quite fast, but some do struggle with the idea of zoning in on the few things that are of especial interest to them and not feeling that they are losing out. We always wanted the academy to be a way to pool our resources so that our students can get the training they need, always, at an affordable price, thus making it available to everyone.

This book follows the same principle. Rather than looking to maximise income, it seeks to convey as much information as possible. In the process of writing it, I decided to give up on the idea of what a chess book usually looks like and allowed it to be its own thing. I am trusting readers to understand that this book is many things, and you do not have to read all of it, simply stick to the sections that pique your interest.

The book contains only six chapters, all of which could have been published as individual volumes. It is a book about technical play in the endgame, in all its facets, with two notable exceptions. This is not a book about rook endings, although a few examples of rook endings are included, and it is not a book about endgame theory, although a few examples do discuss this topic as well.

The original idea of the book was to include only examples where people misplayed their good positions, but as I got deeper into the writing of the book, this constraint became obviously artificial. The book still contains the idea that the endgame is difficult, and these are the ways we mess up, but it is only one dimension.

The themes and examples in this book are meant to be multidimensional. To some readers, a lot of the themes and ideas will be new, while others will be reacquainting themselves with existing knowledge. Learning something new is always a good thing. But so is the reminder of existing knowledge, particularly through new examples. Those readers who are following top tournaments religiously may recognise a few examples, especially from the last chapter. But the explanations and thematic investigation should still make them fresh and revealing. I don't use famous games to explain chess ideas. When I see a book full of examples I already know, because they have been in many books already, I mentally turn off. I do not want this experience for you.

The examples are as important as the themes

Learning anything involves a lot of repetition and looking at it from different angles. Most will know the principle of two weaknesses. But seeing a new example explaining it will only expand your understanding of the theme. In chess nothing is absolute. We have a lot of ideas and concepts that can help our decision making during the game. Evaluating the strategic reach of them better is an important part of improvement. No verbal explanation can fully cover the themes, they only make sense in context. For this reason, this book contains a lot of examples. Hopefully some of them will help you bridge the abyss between understanding a concept and seeing how it works on the board.

How to deal with the deep analysis in this book

It is common for readers of chess books to prefer verbal explanations over lots of variations. Often analysis is disregarded with the contemptuous description of “computer analysis”. Not always without justification. It is easy to press the space bar and fill the white spaces on the page.

This is not what has happened in this book. The variations are meant to be an illustration of possible play, or to explain the tactical or technical nuances of the games. I find that it is easy to make a statement and get the approval of the reader. Usually, those who read a book are willing to believe that you know what you are talking about and will accept the evaluations as valid. But I am not looking for approval. I am wishing for you to improve your game.

The variations and analysis in this book are thus illustrations and explanations and going through them will be a part of the educational process. The thematic explanation can be easy to follow conceptually, but without seeing what it means in practice, I doubt it will have any positive influence on your game. There are a few times where the variations will be quite extensive and if you want, you can skip them. The more experienced you are, the less this should be the case.

If you are a less experienced player and some variations seem overpowering, you should skip whatever you feel you need to skip. As with our academy, it is never the intention that everyone should understand everything, but that everyone will learn something.

If you can, I recommend that you go through the variations in your head. This is good for your training in visualisation in general and where chess should be played. If you need to play through the games on a board, I recommend that you still try to go through the variations in your head. Many strong players would never think of using a board when going through a book; others would not consider reading a book without it. Personally, I am somewhere in-between, depending on the book and my mood.

Why the games are truncated

A fellow author once explained to me his love of unannotated moves, as they reduced the need for him to work. This is probably one of the reasons I dislike them so much?

Bent Larsen said: “Save me from unannotated games!” So, if you are one of the few readers who at times ask us why we start the game halfway and don’t include the first 30-40 moves?

The answer is: the parts of the games that are relevant for the topic of the book are included. If you want unannotated games, you can find them everywhere. If the first 30 moves were included, too many would believe that they had to play through these moves and would be wasting time they should spend improving their endgame technique.

The organisation of the book

The six chapters are organised like this:

1. Endgame Elements

There are many small themes in the endgame. In this chapter we shall deal with a lot of them. Over the six months of writing this book, these are the main topics I could think of. To a strong player, most of them will be familiar, which is where the freshness of the examples is important. To a less experienced player, there will be a lot of new information.

2. Lack of Technique

In this chapter we shall look at common ways for things to go wrong. The core of the chapter is the big section on *allowing counterplay*, but on top of this, some topics are repeated from Chapter 1 and some topics are considered from both angles, such as *hanging on to material* and *overestimating dynamics*.

3. Fortresses

A topic unique to endgames and difficult to understand for a lot of the players I have worked with. It requires a special type of thinking, as rarely are the games decided on a move by move basis, but rather on schematic thinking and a special sensibility for fortresses.

4. Rook vs Bishop

In this chapter we shall go deeper into an endgame that most of the time ends with fortresses. This chapter definitely goes from the simple to the advanced, with details that will stretch the imagination of any grandmaster. The cornerstone game, Aronian – Dubov, is close to impossible to understand fully. I have done my best to do so, and explain what I have understood, but certainly not every aspect of this six-piece ending has been uncovered.

5. Exchanges

When and what to exchange is a difficult topic in chess and no less so in the endgame. In this chapter we shall debate this topic in depth, and why the strategic concept I was taught when I was younger is debateable. In going deep into this topic, I hope I can rescue you from some of the disasters that befell my friends.

6. Illustrative Games

The final chapter includes a few recent games and two lesser-known games that feature big endgame battles. The concept is to show the endgame in its natural habitat and go deep. I enjoy both small clear examples with one-dimensional explanations, and deep analysis of complicated games that tries to address all the elements we encounter on the battlefield.

The book has been designed to be read in order. Start at Chapter 1 and progress through the book. However, there will be many times where you encounter a point explained again, yet explained as if seen for the first time. This is intentional. Repetition is good. There is a lot of information in this book and as said, you do not have to read everything to benefit from it. And at times I presume you have not done so.

However, I hope you will find the themes and explanations revealing and want to read on.

A few general truths about the endgame

Throughout this book you will be faced with a lot of thematic ideas: some known for a hundred years, some obvious, but never really written about, and perhaps a few that I have noticed first. Above them are some general truths about endgame play, which are well established.

Most games are won or lost incrementally

Throughout this book, you will find many examples where one side has a significant advantage already. Either they will win with accurate play, or the other side is facing their last chance(s) to save the game.

This is not how most endgames work. Usually, one side enters the endgame with a slight advantage. This simply means that the other side has more problems to solve. In the last few decades, defensive skills have increased, but the experience is still that a slightly better position will lead to more than average results.

A big part of modern chess is to play for this technical advantage. At the top level, the days of big novelties out of the opening leading to large advantages are behind us. If you get any advantage out of the opening, it is a cause for celebration. In my generation there were a lot of players who loved the opening more than anything else and dived deep, trying to win or draw straight from the opening. When I talk to these people today, some of them feel that chess has been played out to some extent, and all there is left is to attempt some “bluff”. Chess changes throughout the ages and in our age technique is more important than it has been for a while.

Most blunders come from poor positions. So, if you want to rely on luck, you need to create it.

Throughout this book you will find examples where games are won slowly. One side manages to create a few problems for the opponent and keep up the pressure, until more mistakes occur.

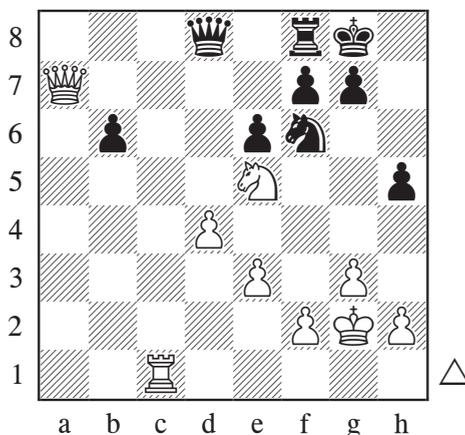
The zone of one mistake

This concept arises from Lev Psakhis and has become an important part of the thinking of Boris Gelfand, as we explained in *Technical Decision Making in Chess*. The idea is simple, yet powerful. What it focuses on, rather than looking for the objectively best line, or a forcing line leading to a win, is to get the opponent into an environment where he is likely to make fatal mistakes. This can be psychologically difficult, as those seeking control will tend to go for forcing lines. But, if you want your opponent to make mistakes, you need to give him enough rope to hang himself.

The following is an example of allowing the opponent to escape from the zone of one mistake.

Sam Shankland – Jorden van Foreest

Prague 2021



Sam played the timid:

27.h3?

The sort of move you make when you are disappointed with the outcome of your main intentions.

27...♞d5† 28.♔g1 ♘e4

Black has enough counterplay. The game took many twists and turns, before White won on move 62, but only because Black was trying to win the game along the way!

Stronger was:

27.♞b7!

This was the move Sam wanted to play on intuitive grounds. He was happy to continue squeezing after 27...♘d5, but was thinking that the intention behind Black's last move, 26...h5!?, was to be expansive on the kingside. He thus calculated the following variation:

27...g5!? 28.♞c7

28.♔g1! would be an additional option for White, keeping flexibility.

28...♞d5† 29.♔g1 ♞xb7 30.♞xb7 g4 31.♞xb6 ♘e4

The knight is aiming for g5. White is pressing, but Black will hold with decent defensive play.

But seeing this variation and to automatically extrapolate that the opponent was intending it and was confident in it, and that he would have defended the endgame well over the next 30 moves, was impractical. Better to allow the opponent to live in the zone of one mistake, than see your advantage die...

Depth of the analysis

This book has been deeply analysed and I have done the best I could to minimise mistakes. Please understand that there will never be such a thing as an error-free book and that the computers of 2030 will have a scope that cannot be matched by the computers of 2021. If you do find a mistake, please get in touch with the publisher and corrections will be made for future print editions – should there be any...

Using this book as an exercise book

I have written several exercise books and will write more in the years to come. Instead this is an instructional book and the positions are selected for their ability to explain the ideas and themes I want to cover.

However, there are those who will wish to use this book as an exercise book and I respect that. I do believe that “thinking” is the most important component in improving in this game of ours.

So, before each chapter I have created a list of exercises and marked them according to difficulty with a 1-5 assessment. As I have used many of the positions with my students, I hopefully have a realistic feeling for how difficult the exercises are...

With the inclusion of the stars and in an attempt not to make the book too long (I do get the irony of that) the idea of numbering the exercises has been abandoned. You can refer to them by their chapter number and page reference, if you need to remember where you were.

I should also say that the exercises are mixed. A lot of them require accurate play, but not all. There are positions with more than one reasonable way to play. There are positions where you should make a positional/technical decision, and there are positions you need to calculate. In some ways it simulates the experience of sitting at the board. You will not know how to approach the position. The only hint you are offered is how difficult it is. I offer this mainly because I know that some people will spend 20 minutes being confused, after seeing the solution in 30 seconds. And others will spend 30 seconds on positions that even seasoned GMs would need to take far more seriously.

Also, please accept that because this is not an exercise book, it is possible there are other sound ways to play than I have indicated in the text. Most often there will not be, but if you believe you have found an alternative solution, then check it and prepare to give yourself a pat on the back.

Chapter 2

Lack of Technique

Introduction

Finally, we have reached a chapter on *technique* in this book called *A Matter of Endgame Technique...*

As this is not a traditional endgame manual, and despite its immense size, I will not attempt to teach you all the techniques of the endgame. Rather, I will give you some examples of how strong players can mess up in the endgame and explanations of what happened. While there are holes in the skills and knowledge of all chess players, they are few and far between when we talk about grandmasters and super-grandmasters.

Many mistakes committed by grandmasters come about because they think that in a particular instance, the well-known strategic principles of the endgame are not important. Playing chess is constantly balancing a scale with understanding and well-trodden paths on one side, and raw calculation on the other. If we tip too much in either direction, we risk either being too dogmatic in our approach or ignoring strategic concepts developed over centuries. In this chapter, we shall first look at a few strategic principles and how their violation led to failure. Then we shall look at the importance of dynamics in endgames, first with situations where the players play too dynamically, then situations where they don't play dynamically enough.

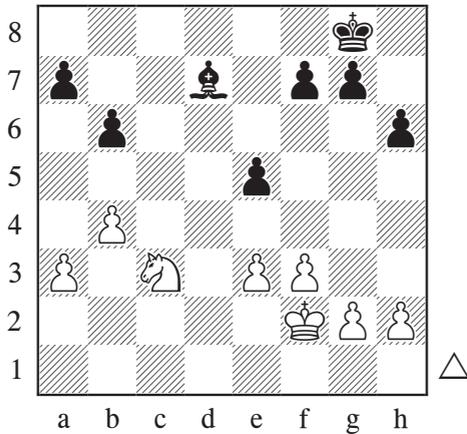
1. Opposition and triangulation

The first topic to deal with is as basic as it gets – the opposition.

The first example is a little-known game from the Soviet Union in the 1970s. White is a famous Russian Grandmaster, while Black at the time of the game was still a junior player and unrated. Later the player from Kyrgyzstan became an International Master. We enter the game after the exchange of queens. White has a slight advantage, as his king is a little more active, but with accurate play, Black should hold the draw. But Black's initial play is anything but accurate, giving White a big advantage.

Ratmir Kholmov – Vladimir Ilinsky

Riga 1975



27. ♖e2 ♜f8?

The first chance to make the draw is to create a pawn structure that works well with the bishop.

27...f6 28. ♔d3 b5! This is the ideal pawn structure. Black will leave the pawn on a7 so it does not become a weakness. The single weakness on b5 is easy to defend, and the white king will have no way to penetrate.

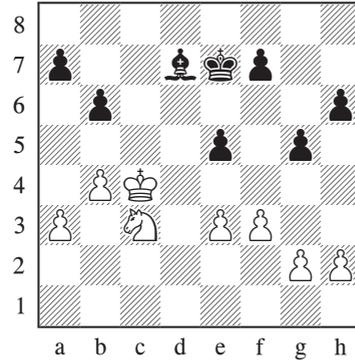
28. ♔d3 ♜e7 29. ♜c4

White has managed to put some pressure on Black, and it is now easy to succumb to desperation.

29... ♜d6?

Which Black does. The hope of drawing the pawn endgame is slim at best. Generally, I would only enter a difficult pawn endgame if I was on top of the implications, or if I had no other choice.

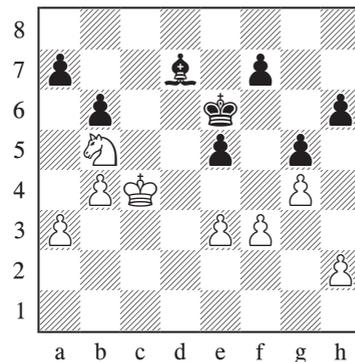
29...g5 would be a normal move. Putting the pawns on the opposite colour of the bishop. White has various tries and I considered four of them:



a) 30.a4 ♜c6 is not dangerous at all.

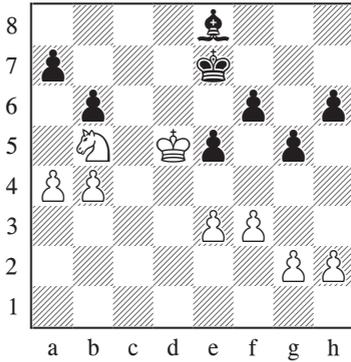
b) After something like 30. ♖b5, Black can play actively with 30... ♜e6† 31. ♔c3 ♜d7! 32. ♖xa7 b5, when the knight is sort of trapped. Why only sort of? Because 33.a4 bxa4 34.b5 is always there. But Black makes a draw quite easily: 34... ♜d6 35. ♖b4 a3 36. ♜xa3 ♜c5 37. ♖a4 ♖b6 38. ♖c6 ♜xc6 39. bxc6 ♜xc6 40. ♖b4 ♖d5 41. ♜c3 e4, for example. There are many ways for Black to defend. This is simply the one that seemed most natural to me.

c) 30.g4 looks quite natural, but Black is not in any trouble. 30... ♜e6!? The computer says that almost everything holds. But the actual experience at the board may be a bit more awkward. I like this move, as it contains a little trap: 31. ♖b5?

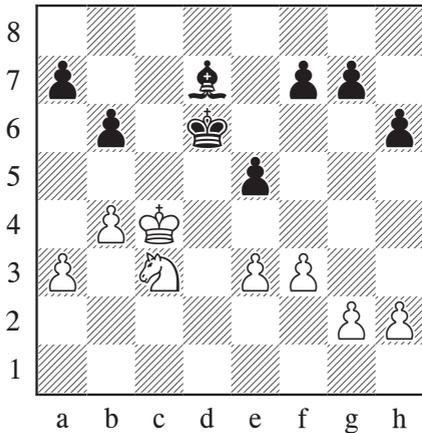


31...e4! 32.fxe4 ♔e5 33.♖c3 ♕xg4 34.♗b5 ♕c8! Black wins. The distant passed pawn on the kingside decides.

d) You might guess that Black was afraid of 30.♗d5, but natural play holds everything together: 30...f6 31.a4 ♕e8 Black can solidly wait. White has no real threats. 32.♗b5



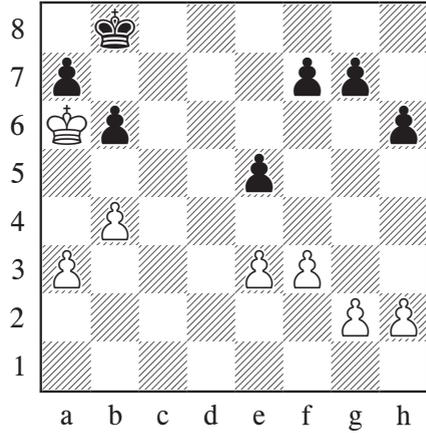
32...♗d7! A nice little trick. 33.♗xa7 ♕f7† 34.♗e4 ♕g6† with perpetual check.



30.♗b5†!

White is eager to grab this chance.

30...♕xb5† 31.♗xb5 ♗c7 32.♗a6 ♗b8



White is obviously winning. But it is still possible to ruin it. The natural strategy would be for White to improve his position to the maximum and then work out the specifics of how to win the game. But with his next move, Kholmov made things harder for himself.

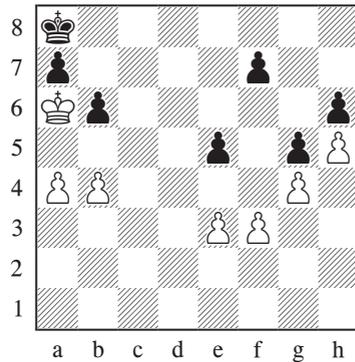
33.f4!:

Not objectively bad, but making things a lot harder is, well, bad.

33.g4!?

This was a stronger move. If Black plays ...g5, White has h2-h3 in reserve for later.

33...♗a8 34.h4 g5 35.h5 ♗b8 36.a4 ♗a8



The critical moment where White has to find a win. Luckily there are two.

37.♔b5

Later on, we will see that 37.a5 bxa5 38.bxa5 ♔b8 39.♔b5 ♔b7 wins because of 40.♔c5 ♔a6 41.♔b4! ♔b7 42.♔b5 and Black has been triangulated.

37...♔b7 38.♔c4 ♔c6 39.f4! exf4

39...f6 40.b5† ♔d6 41.f5 and White wins.

40.exf4 f6

40...gxf4 41.g5 and White wins. The white king is within the quadrant and the black king is not.

41.fxg5 fxg5 42.♔d4 ♔d6 43.♔e4 ♔e6 44.b5 Zugzwang. White wins.

33...exf4 34.exf4 ♔a8?!

Black returns the favour.

He could have provided a lot of resistance with:

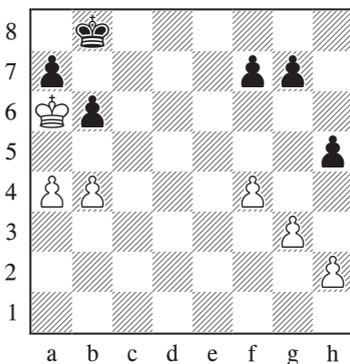
34...h5!

The winning line is very narrow for White and the chance that Kholmov would have found it is not big.

35.g3! ♔a8

There are other attempts, but at this point I shall not spam you with variations.

36.a4 ♔b8



37.f5! ♔a8 38.a5! bxa5 39.♔xa5! ♔b8 40.♔b5 ♔b7 41.♔c5 ♔c7 42.♔d5 ♔d7 43.♔e5 ♔c6 43...♔e7 44.f6† gxf6† 45.♔f5 is elementary. White will quickly win a pawn and then the game.

44.f6 g6 45.b5†! ♔c5 46.h4

Black is in zugzwang and White wins.

35.a4?!

35.g4!

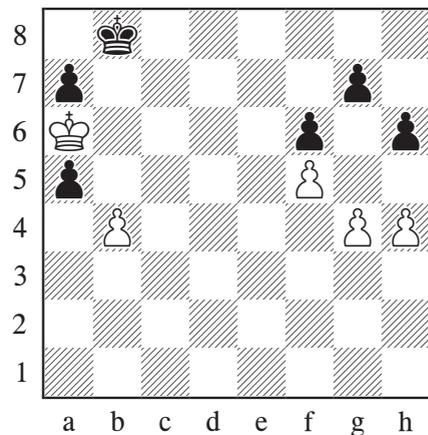
35...♔b8

35...h5! still loses, but was worth a try.

36.g4 ♔a8 37.h4 f6 38.f5!

Securing a tempo move on the kingside.

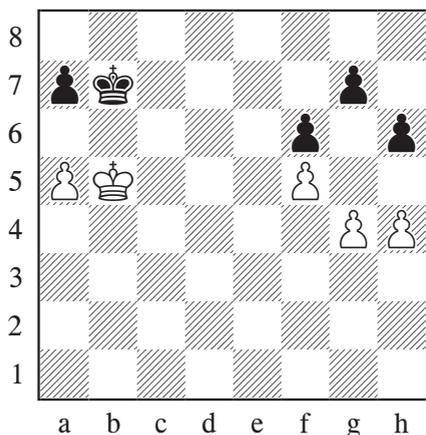
38...♔b8 39.a5 bxa5



40.bxa5?!

40.♔xa5! would have been a lot easier. A possible winning line could be: 40...♔b7 41.♔b5 ♔c7 42.♔c5 a6 43.♔d5 ♔b6 (43...♔d7 44.h5 and the reserve tempo comes in handy. Black is in zugzwang and can only decide which side of the board he wants to lose on.) 44.♔e6 ♔b5 45.♔f7 ♔xb4 46.♔xg7 a5 47.g5 White wins. He will promote with check on f8 and not even have to win a queen ending.

40...♔a8 41.♔b5 ♔b7



42.a6†?

The first real mistake.

The winning line was based on triangulation.

42.♔c5! ♔a6

42...♔c7 43.♔d5 ♔d7 44.a6 wins easily.

43.♔b4 ♔b7 44.♔b5!

The triangulation is complete.

44...♔c7 45.♔c5 ♔b7

45...♔d7 46.♔d5 a6 47.h5 and White wins.

46.♔d5 ♔a6 47.♔e6 ♔xa5 48.♔f7 ♔b5

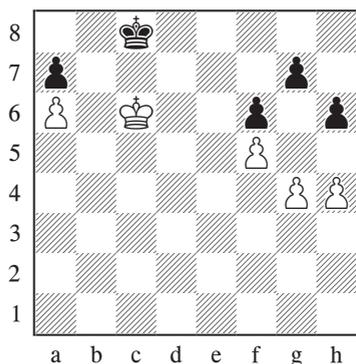
49.♔xg7 a5 50.g5

White arrives first, winning.

42...♔c7?

Black misses the chance to save the game.

42...♔b8!! 43.♔c6 ♔c8



Keeping the opposition from the 8th rank. Talk about the last line of defence!

The key point is that 44.h5 ♔d8 45.♔b7 ♔d7 46.♔xa7 ♔c7 leads to a well-known fortress.

43.♔c5 ♔d7 44.♔d5

Black is in zugzwang and White wins.

44...♔e7 45.♔c6

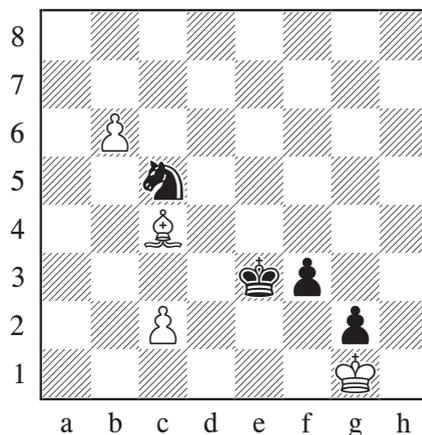
1-0

There are several points to be made about this game. Black lost because he entered a dangerous pawn ending and then played it sub-optimally. Perhaps he believed himself to be already lost when he missed the last chance to hold. White got his chance and then played quite poorly. First he failed to strengthen his position on move 33. Then on move 40 he chose to have an a-pawn, rather than a b-pawn. Finally, he failed to find the triangulation manoeuvre that would still have won the game, giving his opponent an undeserved chance to hold. Or maybe he failed to see the defence that his move allowed. We can only speculate.

Let's see another example of triangulation.

Francis Alard – Jacques Porte

Vitrolles 2000



Draw agreed?

1/2-1/2

Obviously, this will not do. Let's see the winning triangulation.

52...♙f4!

The winning move.

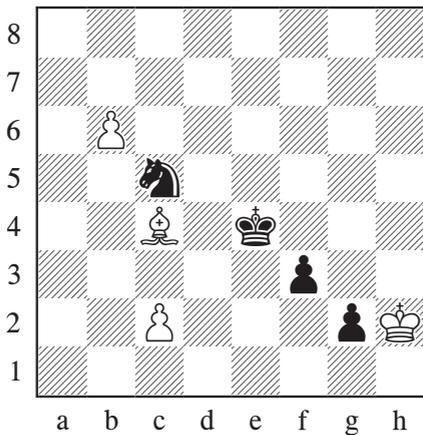
Black can also play 52...♞b7, but after 53.♙d3, all he can do is repeat the position. The knight cannot do triangulation.

However, should White play 53.♙d5?, Black will win with a nice idea: 53...♙e2 54.♙c4† ♙e1 Once the knight protects the g2-pawn, it is game over. 55.♙a6 ♞d6 56.♙d3 ♞f5! 57.b7 ♞e3 58.b8=♚ f2† 59.♙h2 g1=♚† 60.♙h3 ♚g2† 61.♙h4 ♚g4#

53.♙h2!

Forced because of the mate arising after ...♙g3.

53...♙e4!!



We can now see that the bishop is ideally placed on c4. White can either move the bishop now, or on the next move. It makes no difference.

54.♙g1 ♙e3

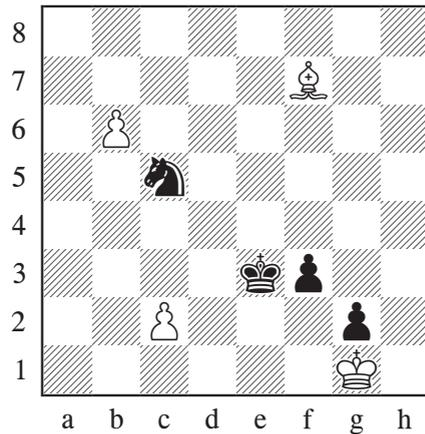
Black has managed to pass the move to White, who is now in zugzwang.

55.♙f7

The critical try. White is preparing to meet 55...♙e2 with 56.♙h5, preventing the advance of the f-pawn. Black would then do best to go back with 56...♙e3, aiming to repeat the position, after which he could win as detailed below.

Putting the bishop on the other diagonal is out of the question. After 55.♙b5 ♞e6, Black will defend the g-pawn and queen his pawns with check.

55.c3 loses in various ways, most entertainingly with Black repeating the triangulation manoeuvre. But this is not a study, so the position of the pawn stems from prior action and not to diminish the number of winning lines for Black.



55...♙d3!!

The absolute highlight of this endgame. Black is threatening ...♞f4, so White has to accept the sacrifice.

56.cxd3 f2†

It was still possible to blunder with 56...♙e2?!, when 57.♙h5 wins for White.

57.♙xg2 ♙e2

Black queens the pawn and wins the game.

Name Index

A

Aagaard 76, 99, 104, 120, 231, 349, 356
Abdullayev 743
Abdumalik 163
Abdusattorov 644
Adhiban 222, 227, 317, 318, 319
Afanasiev 448, 690
Agdestein 104
Aigner 114
Akobian 503, 580
Alard 315
Alekhine 803
Alekseev 741
Allan 815
Almagro Mazariegos 169
Almasi 439
Amann 488
Anand, P. 45
Anand, V. 338, 339, 340, 611, 742
Andersson 231, 772, 773, 775, 783
Andreikin 32
Andreu 157
Andrianov 717
Antipov 488, 494, 499
Antonsen 400, 403
Aouididi 148
Areshchenko 742
Aronian 11, 327, 328, 338, 441, 442,
443, 444, 446, 447, 502, 515,
555, 568, 575, 576, 577, 579,
625, 633, 704, 706, 710, 711, 712
Artemiev 137, 598, 599, 603
Askarova 815
Azarov 686

B

Balajayeva 141, 742
Banko 148
Banusz 317
Barskij 125
Basso 153, 856

Batchuluun 818
Batsiashvili 147, 742
Bednorz 348
Belezky 61
Belyakov 264
Benjamin 623, 624, 677
Berkes 301, 303
Beukema 148
Beydullayeva 147, 677
Bjerre 212, 841
Blatny 139, 615
Bluebaum 57, 136, 137, 367, 368
Bocharov 400, 402
Bodnaruk 141, 430
Bogner 370
Bogosavljevic 260
Bojkov 742
Bortnyk 500
Boskovic 401, 407, 408
Botvinnik 364, 609, 616,
617, 646, 707, 870
Boyer 481
Brandenburg 742
Braun 206
Bruch 348
Brugger 817
Brynell 676

C

Capablanca 4, 275, 277
Carlsen 121, 155, 156, 189, 192, 193,
195, 197, 198, 199, 200, 203,
338, 441, 747, 748, 783, 809, 864
Carlsson 460
Caruana 452, 779, 780, 781, 782,
783, 784, 785, 786, 787, 789
Castellanos 44, 74, 75, 76,
79, 126, 157, 169, 204,
223, 230, 231, 240, 301
Chabris 256
Charochkina 430

- | | | | |
|-----------------|-----------------------------------|-----------------|------------------------------|
| Chatzieftheriou | 744 | Dvoretzky | 94, 101, 332, |
| Chen | 333 | | 348, 398, 433, 447, 560, |
| Cheparinov | 594 | | 566, 568, 615, 625, 690 |
| Cherniaev | 242 | E | |
| Chigaev | 261, 457 | Eckert | 267, 522 |
| Chistiakov | 566 | Eden | 322 |
| Chithambaram | 102 | Ehlvest | 775 |
| Christensen | 145 | Eljanov | 857 |
| Ciric | 362 | Engel | 57, 728 |
| Cmilyte | 742 | Eraschenkov | 226 |
| Coleman | 59 | Erdogdu | 743 |
| Concio | 28 | Erdos | 257 |
| Cordova | 618 | Esipenko | 325, 326, 459, 489 |
| Cramling | 816 | Euwe | 369 |
| Cuenca Jimenez | 171 | F | |
| Cumming | 187 | Fantinel | 762 |
| D | | Fedorov | 744 |
| Dai Changren | 740, 745 | Fedoseev | 277, 279, 347, 721 |
| Danielyan | 351 | Feller | 748 |
| Dardha | 124 | Fernandez Reyes | 691 |
| Deac | 199, 379, 382, 725 | Fichtl | 139 |
| Debarnot | 829 | Finn | 700 |
| De la Villa | 440, 447, 568 | Firat | 594 |
| Delgado Ramirez | 345 | Firouzja | 155, 250, 251, 252, |
| Demuth | 210 | | 287, 289, 395, 441 |
| Deuer | 183 | Fischer | 765 |
| Deviatkin | 742 | Forgues | 744 |
| Dhopade | 425 | Fridman | 229 |
| Diamant | 345 | Frielingsdorf | 618 |
| Di Benedetto | 240 | G | |
| Diermair | 183 | Gabuzyan | 534, 537, 539 |
| Ding Liren | 46, 47, 58, 66, 72, 164, | Gagunashvili | 68 |
| | 198, 239, 447, 625, 704, | Gaponenko | 625, 626, 631, 646, 859 |
| | 706, 707, 711, 712, 782 | Garcia Ramos | 171, 176 |
| Domingo Nunez | 204 | Garcia Vasquez | 126, 129 |
| Dominguez Perez | 683, 746 | Gelfand | 12, 32, 128, 199, 258, |
| Draskovic | 45 | | 280, 448, 611, 654, 705, 725 |
| Drazic | 362 | Getz | 400, 405 |
| Dreev | 699 | Gholami | 396 |
| Dubov | 11, 165, 459, 555, 568, 569, | Ghosh | 103, 122 |
| | 575, 576, 579, 633, 648, 649, 655 | Gines Esteo | 103 |
| Duda | 280, 281, 282, 420, 441, 442, | | |
| | 443, 444, 445, 662, 663, 747, 748 | | |

Giri	75, 164, 165, 250, 251, 252, 253, 254, 255, 341, 342, 343, 344, 441, 662, 676, 780, 790, 791, 792, 793, 794, 795, 796, 797, 798, 800, 801, 802	Howell	783
Gitelson	138	Huss	817
Goganov	564	I	
Gonzalez Vidal	454	Ibadov	264
Gordon	379, 380	Idani	396, 398
Graf	136, 179, 728	Ikeda	218
Grigorov	676	Ilinsky	312
Grischuk	385, 515, 589, 590, 611, 872, 873, 876, 877	Iljiushenok	740
Gschnitzer	62, 664	Inarkiev	436, 690, 691
Guerrero Sierra	223	Iniyan	58, 66
Gukesh	275	Injac	687, 721
Guo	714	Irwanto	123
Gupta	612	Ivanov	373, 375, 378
Guretzky-Cornitz	557	Ivanovic	358
Gurevich	717	Izoria	423, 431
Gurner	86	J	
Guseinov	486	Jacobsen	145
Gu Tianlu	432	Jakovljevic	143
H		Jani	182
Hammer	400, 405	Janik	115
Hansen, L.B.	772, 775, 777, 814, 822, 825, 827	Jeevitesh	109
Hansen, Su.B.	178, 276, 772	Jones	514, 518, 520
Harika	665, 667	Jovanic	401, 407
Harikrishna	70, 327, 328, 433, 440, 441, 454, 456	Ju Wenjun	452, 505, 665, 666
Hart	291	K	
Hartmann	739	Kapnisis	743
Haug	373, 375, 377, 378, 379	Karacsonyi	73
Hector	221, 231	Kardashevskiy	428
Heimann	206	Karjakin	52, 864, 873
Heinemann	69, 234	Karttunen	295
Hernandez	236	Kasimdzhanov	780
Hickl	615, 616, 619	Kavalek	40
Hillarp Persson	298, 356	Keymer	409, 410, 415, 857
Hjartarson	43	Khalifman	217
Houdini	458	Khanin	365, 740, 745, 749
Hou Yifan	341, 342, 343, 344	Khazhomia	44
		Khismatullin	264, 448
		Khmelnitsky	267, 268, 272
		Kholmov	312, 313, 314
		Kiik	163
		King	349
		Kirk	216

Knott	242	Liang, J.	208, 416, 417, 717
Kobalia	226	Li Ruifeng	401, 406
Kollars	167, 229, 258, 744	Liu	333
Kononenko	686	Lobanov	502
Korobov	31, 139	Lu Shanglei	782
Kosintseva	742	Lund	626, 845
Kotronias	70, 71	Lupulescu	485
Kovacevic	368		
Kovalenko	325, 326, 564	M	
Kovalev	845, 846, 847, 848, 849, 853	Maghsoodloo	149, 486, 550, 601
Kozak	111	Makropoulou	741
Kramnik	446, 447, 559, 864, 865, 866, 871, 872, 873	Malakhov	370
Krasenkow	32, 95, 126	Mamedov	31
Krejci	91, 368	Mamedyarov	46, 47, 58, 66, 400, 402
Kryvoruchko	283, 286	Mammadova	742
Ksir	829	Marandi	463
Kubbel	140	Martic	56
Kucuksari	298	Martin Duque	115, 117, 701
Kuhn	681	Martinez Fernandez	32
Kulaots	439	Martirosyan	140
Kupreichik	125	Mastrovasilis, A.	743
Kuzubov	187, 188	Mastrovasilis, D.	69
Kvisvik	123	Mayrhuber	109
Kvitka	138	McShane	123
		Meier	167, 169, 618, 773
L		Mendonca	275
Lalith	222	Merilo	821
L'Ami	816	Miezis	276
Lamoureux	744	Mikhalevski	503, 580, 581
Lampe	647	Miles	586, 654, 655, 656, 659, 872
Lamprecht	121	Milliet	107
Laptii	125	Milos	358, 618, 668
Larkin	166	Minski	215, 348
Larsen	10, 586, 588, 654, 660, 662, 716	Mishra	111
Lasker	164, 319	Mista	420, 463, 583
Latzke	744	Moroni	669, 670
Lejlic	324	Morozevich	458
Leko	217, 500, 856	Müller	121
Le Quang Liem	401, 406	Murali	149
Lesovoi	134	Murzin	274
Levin	134	Muzychuk, A.	452, 505, 684, 848
Li, E.	466	Muzychuk, M.	163
Liang, A.	550, 601, 845		

N		Porte	315
Nabaty	120	Postny	446
Nadig	400, 402	Potkin	35, 37, 803
Naiditsch	210, 211	Praggnanandhaa	274, 457
Nakamura	113, 189, 190, 194, 198, 385, 676, 742, 873	Psakhis	12
Narayanan	32, 33, 664	Pytlík	829
Navara	485, 611, 612, 615	Q	
Nepomniachtchi	75, 300, 702, 782, 790, 794, 798, 800, 803, 804, 805, 808, 811, 813, 856, 873	Quparadze	204
Nestorovic	73	R	
Nguyen, N.T.S.	227	Rabiega	748
Nguyen, T.T.T.	207	Radjabov	113, 300, 301, 653
Nielsen, P.H.	144, 201, 809, 814, 822	Ragger	762, 764, 766, 767
Nielsen, S.	122, 299	Ragnarsson	416
Niemann	841	Rakhmanov	133
Niering	61, 647	Rapport	98, 560, 563, 601, 828, 829, 830, 831, 833, 836, 837, 838, 839
Ntirlis	41, 42	Raunak	692
O		Reti	115, 119, 160, 328
Ochsner	212, 400, 403	Rhine	182, 256
O'Donnell	460	Rodriguez Vila	618
Oleksiyenko	425	Rodshtein	216
Onischuk	82, 84, 86	Romanov	133
Ospennikov	744	Romsdal	123
P		Rosner	62
Paecht	742	Roubert	678
Paichadze	204	Rout	207
Pang	114	Rozentalis	623, 624
Panno	618	Rozum	428
Papadiamandis	678	Rubinstein	380
Papp	560, 602	S	
Paraschiv	677	Sachdev	625, 646, 783, 859
Pedersen	144, 145	Sadovsky	264
Pereira	692	Saduakassova	644
Perez Mitjans	236	Safarli	102
Petrosian	765	Salem	488, 494
Petrosyan	140, 153, 534	Salemgariev	391
Petrov	699	Salgado Lopez	583
Pipia	481	Sano	400, 402
Plat	103	Sargissian	178
Polgar	446	Sargsyan	502
Ponkratov	261, 365	Sariego Figueredo	743
		Sattarov	160
		Savic	143

Saya	176	Stubbs	700
Sebenik	126	Subelj	669, 671, 673, 675
Senthil	103, 122	Sutovsky	742
Senthilkumar	466	Suttles	40
Servat	743	Svane	179, 258, 773
Sethuraman	257	Svidler	239
Seyfried	324	Swiercz	527, 528, 530
Shah	113	Szabo	609, 610, 616, 617, 870
Shankland	4, 13, 40, 52, 82, 86, 98, 223, 230, 240, 346, 347, 446, 527, 529, 552, 648, 655, 675, 725	Szwed	555, 580, 607, 614
Shaw	106, 739, 878	T	
Shetty	294	Tabatabaei	277, 279, 721
Shinkevich	741	Tal	536, 829, 845
Shirazi	173	Tang	746
Shirov	204, 779	Tarasiuk	299
Short	147, 218, 361, 717, 878, 880, 882, 883, 886	Tay	329
Sindarov	662, 703	Thorfinnsson	231
Sivuk	32	Thybo	55
Smeets	409, 411, 412, 413, 414, 415	Tin Jingyao	28
Smyth	291	Toma	86
So	38, 287, 653, 702, 703	Topalov	295, 297
Sochacki	856	Travadon	107, 108
Solak	283	Troitzky	159
Solodovnichenko	166	Truman	428
Somogyi	560, 602	Tsydypov	139, 391
Song	509	U	
Sonis	91, 294	Uriel	681
Soto	58, 66	V	
Srdanovic	668, 669	Vachier-Lagrave	38, 452, 589, 590, 612, 779, 780, 781, 782, 783, 784, 785, 787, 872, 873, 874, 875, 876, 877
Srivatshav	55	Vaishali	247, 248, 249, 509, 510
Stankovic	358, 360, 668	Vakhidov	160
Stearman	693	Valk	148
Stefanidi	741	Van Dael	74
Stefanou	744	Van Foreest	13, 72
Stefanova	163	Van Kampen	458
Stefansson	43	Van Wely	221, 234
Steingrímsson	611, 614	Van Wessel	742
Steinitz	50, 55, 94, 98, 103, 123, 180, 332, 784	Vega Gutierrez	701
Stephan	173	Velicka	79
Stocek	95, 97, 516	Vetokhin	687, 721
Stopa	68	Vidit	280, 281, 598, 599, 600, 601

Vlachos	124	Y	
Volkov	623	Yakubboev	662, 703
Volokitin	742	Yeoh Li Tian	338
W		Yeremyan	351
Waelzel	215	Yermolinsky	3, 446, 447
Wang, J.	370	Yilmaz	818
Wang Hao	683, 803, 808, 811, 813	Yip	693
Wang Yue	705	Yoo	555, 580, 607, 614, 714
Warmerdam	516	Yordanov	260
Watson	268, 817	Yuffa	436, 489, 490
Webb	820, 821	Yusupov	94, 332, 367, 409, 648,
Wei Yi	352, 353, 354, 563, 601		650, 654, 655, 657, 659, 661, 690
Wen Yang	352	Yu Yangyi	66, 828, 831, 832, 834, 839
Winants	773	Z	
Wojtaszek	35, 36, 38, 367, 368	Zhang Xiaowen	432
Woodward	370	Zhao Jun	179
X		Zhigalko	433
Xiong	59, 423, 431, 514, 518, 520, 521	Zhou Jianchao	66, 742
Xu Xiangyu	782	Zhou Qiyu	247
Xu Yi	179	Zivkovic	56

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