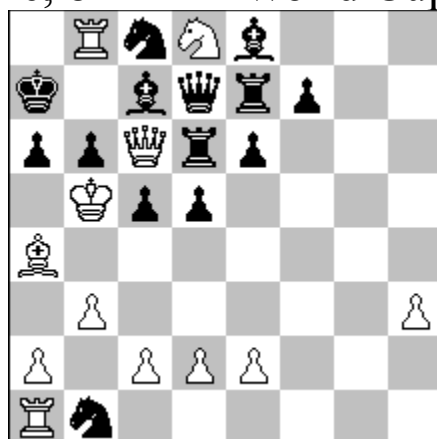# #1 Dmitrij Baibikov
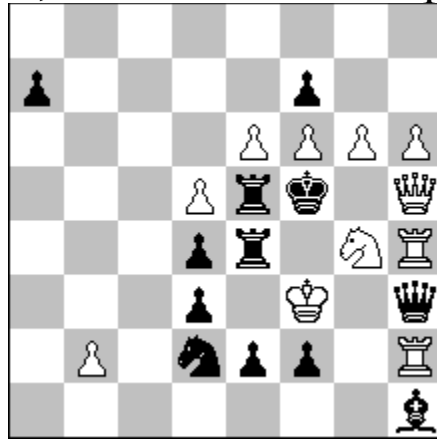## 2nd Prize, 8th FIDE World Cup, 2020

(12+14)

Release the position

Solution.

Retro: 1...b7×Qa6#! (1…b7×Sa6#? 2.g2×Ph3 – illegal, since balances of sides are closed and arisen position is released only after retract of white dark-squared Bishop at home, however it's impossible because uncapture a7×Bb6 cannot occur earlier than retroknot is released.) 2.Qa5×Sa6+! Sb4×Sa6! 3.h2-h3 Sd3-b4 and further 4.Qb4-a5 Sf2-d3 5.Qg4-b4 Sh3-f2 6.Qg8-g4 Sg1-h3 7.g7-g8=Q Sh3-g1 (7…g2-g1=S? 8.g6-g7 g3-g2 9.g5-g6 h4×Bg3 10.Be5-g3 h5-h4 11.Bb2-e5 h6-h5 12.Bc1-b2 h7-h6 13.b2-b3 ?? 14.Bb3-a4 ?? 15.Ka4-b5 – illegal, since Black lacks for 2 tempos.) 8.g6-g7 Sg1-h3 9.g5-g6 Sh3-g1 10.g4-g5 Sg1-h3 11.Sb4-a6 Sh3-g1 12.Sd3-b4 Sg1-h3 13.Sf4-d3 Sh3-g1 14.Sh5-f4 Sg1-h3 15.Sf6-h5 Sh3-g1 16.Sg8-f6 Sg1-h3 17.g7-g8=S Sh3-g1 18.g6-g7 Sg1-h3 19.g5-g6 g2-g1=S 20.f4×Pg5 g3-g2 21.f3-f4 h4×Bg3 22.Be5-g3 h5-h4 23.Bb2-e5 h6-h5 24.Bc1-b2 h7-h6 25.b2-b3 g6-g5 26.Bb3-a4 g7-g6 27.Ka4-b5 etc.

For the first time, Ceriani chain (bP×wQ×bS×wS) is realized with uncaptures of 3 promoted pieces (QSs). It's interesting that thematic uncaptures occur on the same square and in exact retroplay.

#2 Dmitrij Baibikov
1ˢᵗ Prize, 9ᵗʰ FIDE World Cup, 2021

(11+12)
Add units and release the position

Solution.

Last move: 1…S~-d2+. So, minimum 3 units need to be added on squares g2, g3 and g5 for preventing illegal checks. If add only black pieces, sides' balances will be closed, but after 1…S~-d2+ retrostalemate to White. So, white piece must be added on square g3 for unpinning it after 1…Sf1-d2+ 2.X~-g3 Sg3-f1+. This white piece can be only Bishop. After additions wBg3 and 2 black pieces (for example, bBg5 and bSg2) sides' balances will be closed too, but after 1…Sf1-d2+ 2.Bf4-g3 Sg3-f1+ 3.Bd2-f4 Bf4-g5 4.g5-g6+ turn out, that retro-free dark-squared wBd2 cannot reach square c8 for unpromotion. So, it is needed to add white piece on g2, which, after unpinning, could reach square c8 and add black piece on g5, which will be able to unpin white piece on g2.

Additions: wQg2, wBg3, bQg5.
Sides' balances:
– White: 11 (on diagram) + 2 (added) + 3 (were captured by black Pawns: c×d, g×f, h×g) = 16
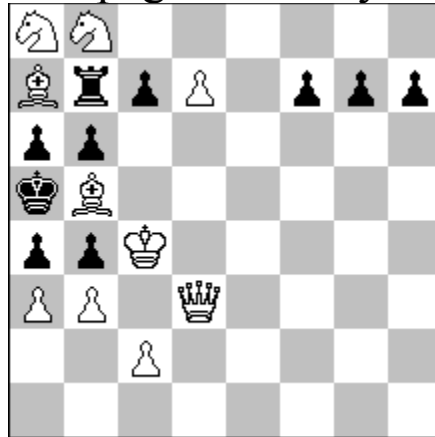– Black: 12 (on diagram) + 1 (added) + 3 (were captured by white Pawns: a×b, d×e, e×d) = 16

Retro: 1…Sf1-d2+ 2.Bf4-g3 Sg3-f1+ 3.Bc1-g5! Qd2-g5 4.g5-g6+ and further 4…Qe1-d2 5.Bd2-c1 Qf1-e1 6.Bb4-d2 Qg1-f1 7.Bd6-b4 Qf1-g1 8.Bb8-d6 Qg1-f1 9.b7-b8=B Qf1-g1 10.b6-b7 Qg1-f1 11.b5-b6 Qf1-g1 12.b4-b5 Qg1-f1 13.b3-b4 Qf1-g1 14.a2×Pb3 Qg1-f1 and now tempoplay starts 15.Qf1-g2 g2-g1=Q+ 16.Qc1-f1 b4-b3 17.Qc8-c1 b5-b4 18.c7-c8=Q b6-b5 19.c6-c7 b7-b6 20.c5-c6 e3-e2 21.c4-c5 c5×B(S)d4 etc.

For the first time, addition of 3 promoted pieces is realized without stipulation pressure.

#3 Dmitrij Baibikov
1st Prize, Champagne Tourney Rhodes 2021

(10+10)
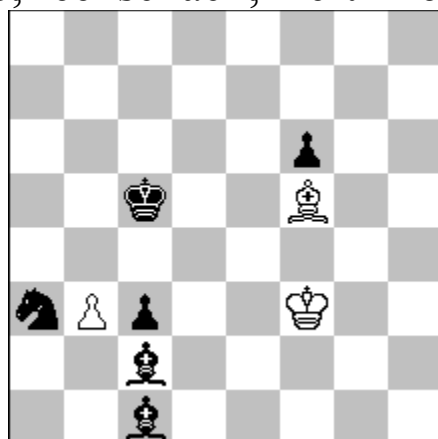White to move.
History of black Pawns a4 and b4?

Solution.

Retro: 1…c5×Sb4 2.Kd4-c4 (2.d6-d7? - retrostalemate to Black)
2…d6×Sc5+ 3.Bc4-b5 b5×Sa4 and further 4.Sd5-b4 c6×Sb5 5.Sf6-d5
Kb4-a5 6.a2-a3+, then: Se8-f6, e7-e8=S, f6×Re7, Re7 to h8, g5×Bf6,
Bf6 to f8, Sc5 to e8, e7-e8=S, Pe7 to e2, Sb5 to e8, e7-e8=S, Pe7 to e3,
Sa4 to e8, e7-e8=S, e6-e7, e7×Rd6 and position unlocks (further d7×Rc6).

Echo-ways (Pd7×Rc6×Sb5×Sa4 and Pe7×Rd6×Sc5×Sb4) with
Ceriani Quartex (SSSS).

#4 Dmitrij Baibikov

12588, feenschach, Heft 246, 2021

(3+6)

-43 & #1 (Proca)

Anti-Circe

Solution.

Retract **1.Ke3-f3 Bb2-c1+ 2.Kd3-e3 Bd1-c2+ 3.Kd2-d3 c4-c3+ 4.Kc3-d2 Bc1-b2+ 5.Kd2-c3 Bb2-c1+ 6.Kc3-d2 Bc1-b2+ 7.Kd2-c3 c2-c1=B+ 8.Ke2-d2 d2-d1=B+ 9.Kd1-e2! c3-c2+ 10.Ke1-d1 d3-d2+ 11.Ke1×Rd1(+wKe1) Rd2-d1+ 12.Kf2×Bg2(+wKe1) Rd1-d2+ 13.Kf1-f2 Ba8-g2++ 14.Ke1-f1 Rd2-d1+ 15.Kf2×Sf1(+wKe1) Rd1-d2+ 16.Ke1-f2 Rd2-d1+ 17.Ke4×Bf4(+wKe1) Kc6-c5+ 18.Ke3-e4 Bb8-f4++ 19.Kf2-e3 Rd1-d2+ 20.Ke1-f2 Rd2-d1+ 21.Kg2×Bf3(+wKe1) f4-f3+ 22.Kf2-g2 Rd1-d2+ 23.Ke1-f2 Rd2-d1+ 24.Kd4×Bc5(+wKe1) Kd7-c6+ 25.Ke3-d4 Ke7-d7+ 26.Kf2-e3 Rd1-d2+ 27.Ke1-f2 Rd2-d1+ 28.Ke4×Qd5(+wKe1) Kd8-e7+ 29.Ke3-e4 Ke7-d8+ 30.Kf2-e3 Rd1-d2+ 31.Ke1-f2 Rd2-d1+ 32.Kg4×Bh5(+wKe1) Bf7-h5+!** (32…Bg6-h5?/Be8-h5+? 33.Kf3-g4 Kd8-e7+ 34.Kf2-f3 Rd1-d2+ 35.Ke1-f2 Rd2-d1+ 36.Kf7×Se8(+wKe1)/Kd6×Rd7(+wKe1) Bh7-g6+/Rc7-d7++ 37.Ke6-f7/Bc8-f5 & 1.Kd7#.) **33.Kf3-g4 Kd8-e7+ 34.Ke3-f3! Ke7-d8+ 35.Kf2-e3 Rd1-d2+ 36.Ke1-f2 Rd2-d1+ 37.Kg4×Bh5(+wKe1) Bg6-h5+ 38.Kf3-g4 Kd8-e7+ 39.Kf2-e3 Rd1-d2+ 40.Ke1-f2 Rd2-d1+ 41.Ke6×Rd7(+wKe1)! Be8-f7+ 42.Kd6-e6 Rc7-d7++ 43.Bc8-f5 & 1.Kd7#.**

Tries.

1) 9.Ke1-e2? d3-d2+ 10.Ke1×Rd1(+wKe1) Rd2-d1+ & 1…c1=Q# – forward defense.

2) 11.Ke2×Bd2(+wKe1)? d4-d3+ 12.Ke1-e2 d3-d2+ 13.Kd7×Se8(+wKe1) & 1.Kc6+ Kb4! – no solution.

3) 41.Ke6×Re7(+wKe1)? Be8-f7+ 42.Kd6-e6 Ba7-b8+! 43.Bc8-f5 & 1.Kd7+ Re1! – no solution.
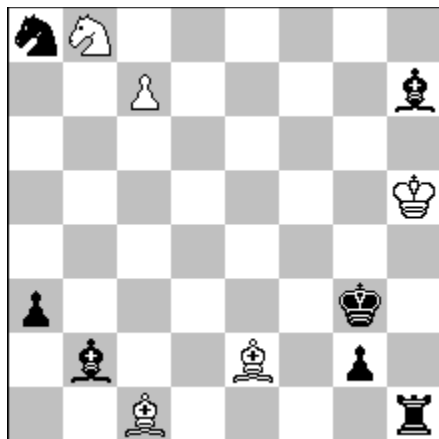
The second (after **A**) Anti-Circe Proca defensive retractor with the same length record, but with more economical position.

Also the maximal index: number of uncaptures (10) x number of retractions (43) = 430. Compare with **#5** (13 x 30 = 390) and **C** (11 x 38 = 418).

A Vlaicu Crişan & Klaus Wenda
1st-2nd Prize, StrateGems, 2018
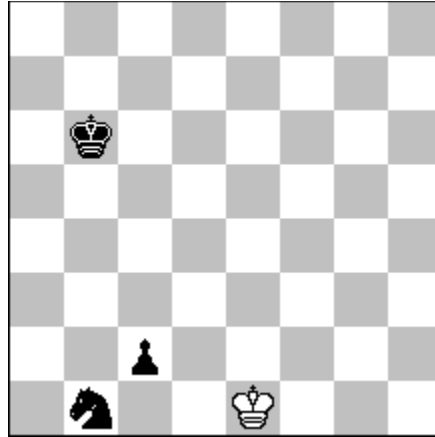Dedicated to Günther Weeth

(5+7)
-43 & #1 (Proca)
Anti-Circe

#5 Dmitrij Baibikov
No.1524-2.1, Julia's Fairies, 19.XII.2021

(1+3)

-30 & #1 (Proca)

Anti-Circe

Solution.

Retract **1.Kd1×Pd2(+wKe1)! c3-c2+ 2.Ke1-d1 d3-d2+ 3.Ke1×Rd1(+wKe1) Rd2-d1+ 4.Kf2×Bg2(+wKe1) Rd1-d2+ 5.Kf1-f2 Ba8-g2++ 6.Ke1-f1 Rd2-d1+ 7.Kf2×Sf1(+wKe1) Rd1-d2+ 8.Ke1-f2 Rd2-d1+ 9.Ke3×Bf4(+wKe1) Bb8-f4++ 10.Kf2-e3 Rd1-d2+ 11.Ke1-f2 Rd2-d1+ 12.Ke2×Rd1(+wKe1)! d4-d3+ 13.Kf2-e2 Rd3-d2+ 14.Ke1-f2 Rd2-d1+ 15.Ke1×Pf2(+wKe1) f3-f2+ 16.Kh3×Bg4(+wKe1) Bh5-g4+ 17.Kg3-h3 Kc7-b6+ 18.Kf2-g3 Rd1-d2+ 19.Ke1-f2 Rd2-d1+ 20.Kg1×Ph2(+wKe1) h3-h2+ 21.Kf2-g1 Rd1-d2+ 22.Ke1-f2 Rd2-d1+ 23.Kg1×Qh1(+wKe1) Kd8-c7+ 24.Kf2-g1 Rd1-d2+ 25.Ke1-f2 Rd2-d1+ 26.Ke1×Bf2(+wKe1)! Bg1-f2+! 27.Ke1×Bf2(+wKe1) Be3-f2+ 28.Kf7×Qe8(+wKe1) Bg4-h5+ 29.Ke6-f7 Bh5-g4+ 30.Kd6-e6 & 1.Kd7#.**

Tries.

1) 1.Ke1×Pd2(+wKe1)? d3-d2+ 2.Ke1×Rd1(+wKe1) Rd2-d1+ & 1…c1=Q# – forward defense.

2) 12.Ke1×Pf2(+wKe1)? f3-f2+ 13.Kh3×Bg4(+wKe1) Bh5-g4+ 14.Kg3-h3 Kc7-b6+ 15.Kf2-g3 Rd1-d2+ & 1…Ba7# – forward defense.

3) 26.Kf7×Se8(+wKe1)? Kc8-d8+! – no solution; 26.Kf7×Qe8(+wKe1)? Bg4-h5+ 27.Ke6-f7 Bh5-g4+ 28.Kd6-e6 & 1.Kd7+ Qe1+! – no solution.

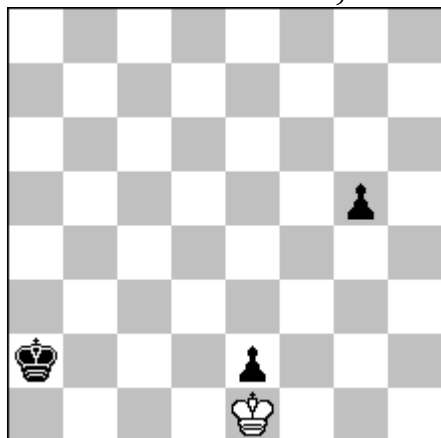Two records are in an Anti-Circe Proca defensive retractor:
- the length record for Wenigsteiner,
- the largest number (13) of uncaptures.

Notes.

1) Previous records are in an Anti-Circe Proca defensive retractor: **B** (the length record for Wenigsteiner) and **C** (11 uncaptures).

<table>
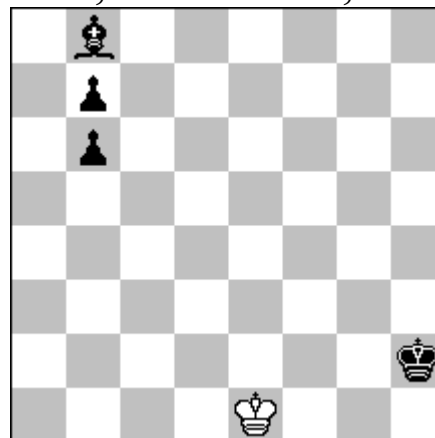<tr><td align="center">**B Aleksandr Levit**
Problem Paradise, 2016</td><td align="center">**C Dmitrij Baibikov**
Prize, StrateGems, 2017</td></tr>
<tr><td align="center">(1+3)
-23 & #1 (Proca)
Anti-Circe</td><td align="center">(1+4)
-38 & #1 (Proca)
Anti-Circe</td></tr>
</table>

2) It is impossible to reduce the number of units in this problem. For example:
- if remove bSb1 and bPc2, then cook in 16: 1.Ke1×Pd2(+wKe1) d3-d2+ 2.Ke2×Bf2(+wKe1) d4-d3+ 3.Ke1-e2 Bg1-f2+ 4.Ke1×Bf2(+wKe1) Be3-f2+ 5.Kd2×Bc2(+wKe1) Bf2-e3+ 6.Ke1-d2 Be3-f2+ 7.Kd2×Be2(+wKe1) Bf2-e3+ 8.Ke1-d2 Be3-f2+ 9.Kc3×Pb4(+wKe1) Kc7-b6++ 10.Kd2-c3 Bf2-e3+ 11.Ke1-d2 Be3-f2+ 12.Kd3×Re4(+wKe1) Kc8-c7++ 13.Kd2-d3 Bf2-e3+ 14.Ke1-d2 Be3-f2+ 15.Ke7×Be8(+wKe1) R~-e4+ 16.Kd6-e7 & 1.Kc7#.
- if remove bSb1, then cook in 17: 1.Ke1×Pd2(+wKe1) d3-d2+ 2.Ke2×Bf2(+wKe1) d4-d3+ 3.Kd1-e2 c3-c2+ 4.Kd2-d1 c4-c3+ 5.Ke1-d2 Bg1-f2+ 6.Ke1×Bf2(+wKe1) Be3-f2+ 7.Kc3×Pb4(+wKe1) Kc7-b6++ 8.Kd2-c3 Bf2-e3+ 9.Ke1-d2 Be3-f2+ 10.Kd3×Re4(+wKe1) c5-c4+! 11.Kd2-d3 Bf2-e3+ 13.Ke1-d2 Be3-f2++ 14.Kd3×Pc4(+wKe1) Kd7-c7+ 15.Kd2-d3 Bf2-e3+ 16.Ke1-d2 Be3-f2++ 15.Kf7×Be8(+wKe1) Kc8-d7+ 16.Ke7-f7 R~-e4+ 17.Kd6-e7 & 1.Kc7#.
- if remove bPc2, then cook in 22: 1.Ke1×Pd2(+wKe1) d3-d2+ 2.Ke2×Bf2(+wKe1) d4-d3+ 3.Kd2-e2
    I. 3…Sa3-b1+ 4.Ke1-d2 Bg1-f2+ 5.Ke1×Bf2(+wKe1) Be3-f2+ 6.Kd2×Pc2(+wKe1) Bf2-e3+ 7.Ke1-d2 Be3-f2+ 8.Kd2×Bd1(+wKe1) Bf2-e3+ 9.Ke1-d2 Be3-f2+ 10.Kd2×Rc1(+wKe1) Bf2-e3+ 11.Ke1-d2 Be3-f2+ 12.Kd2×Be2(+wKe1) Bf2-e3+ 13.Ke1-d2 Be3-f2+ 14.Kc3×Pb4(+wKe1) Kc7-b6++ 15.Kd2-c3 Bf2-e3+ 16.Ke1-d2 Be3-f2+ 17.Ke1×Pf2(+wKe1) f3-f2+ 18.Kd3×Re4(+wKe1) Kc8-c7+ 19.Kd2-d3
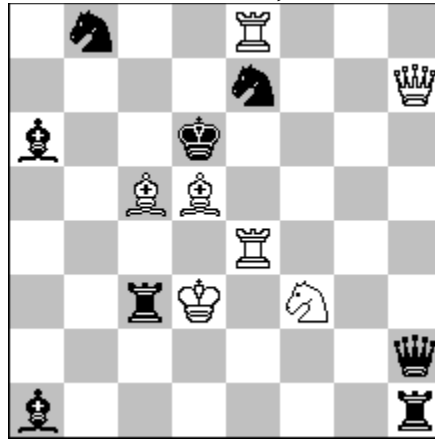
Bf2-e3+ 20.Ke1-d2 Be3-f2+ 21.Ke7×Be8(+wKe1) R~-e4+ 22.Kd6-e7 & 1.Kc7#.

II. 3…Sc3-b1+ 4.Ke1-d2 Bg1-f2+ 5.Ke1×Bf2(+wKe1) Be3-f2+ 6.Ke1×Pf2(+wKe1) f3-f2+ 7.Kd2×Sd1(+wKe1) Bf2-e3+ 8.Ke1-d2 Be3-f2+ 9.Kd2×Be2(+wKe1) Bf2-e3+ 10.Ke1-d2 Be3-f2+ 11.Kc2×Pb3(+wKe1) b4-b3+! 12.Kd2-c2 Bf2-e3+ 13.Ke1-d2 Be3-f2+ 14.Kc2×Pb3(+wKe1) Kc7-b6+ 15.Kd2-c2 Bf2-e3+ 16.Ke1-d2 Be3-f2+ 17.Kd3×Re4(+wKe1) Kc8-c7+ 18.Kd2-d3 Bf2-e3+ 19.Ke1-d2 Be3-f2+ 20.Ke7×Be8(+wKe1) R~-e4+ 21.Kd6-e7 & 1.Kc7#.

III. 3…b2-b1=S+ 4.Ke1-d2 Bg1-f2+ 5.Ke1×Bf2(+wKe1) Be3-f2+ 6.Kd2×Bd1(+wKe1) Bf2-e3+ 7.Ke1-d2 Be3-f2+ 8.Kd2×Be2(+wKe1) Bf2-e3+ 9.Ke1-d2 Be3-f2+ 10.Kc3×Pb4(+wKe1) Kc7-b6++ 11.Kd2-c3 Bf2-e3+ 12.Ke1-d2 Be3-f2+ 13.Ke1×Pf2(+wKe1) f3-f2+ 14.Kd3×Re4(+wKe1) Kc8-c7+ 15.Kd2-d3 Bf2-e3+ 16.Ke1-d2 Be3-f2+ 17.Ke7×Be8(+wKe1) R~-e4+ 18.Kd6-e7 & 1.Kc7#.

#6 Dmitrij Baibikov
18164, Die Schwalbe, Heft 302, 2020

(7+8)
Last 37 single moves?
Strictly growing men

Strictly growing men: Each unit must move further than it moved the last time (distances measured geometrically between square centers). This restriction also holds for the effect on the opponent's King (check only in case if the distance between the checking unit and opponent's King is longer than the distance of the last move of this checking unit).

Solution.

Retro **1…Bc8-a6# 2.Bg1-c5 Rc7×Sc3 3.Bd4-g1 Rb1-h1 4.Re1-e4 Ra7-c7 5.Rg1-e1 Ra8-a7 6.Rh1-g1 Rg1-b1 7.Sb1-c3 Rg5-g1 8.Bb2-d4 Rg8-g5 9.Bc1-b2 Bh8-a1 10.Sg1-f3 Bd4-h8 11.Bg2×Pd5 Rh8-g8 12.Bf1-g2 Sg8-e7 13.Re2-e8 Bg7×Pd4 14.Ra2-e2 Bf8-g7 15.Ra1-a2 Qa2×Ph2 16.Qa7×Ph7 Qg2×Pa2 17.Qg7×Pa7 Qb2×Pg2 18.Qb7×Pg7 Qf2×Pb2 19.Qf7×Bb7 Qc2×Bf2**, and further 20.Ke2-d3 Qe4×Pc2 21.Ke1-e2 Qe6×Pe4+ 22.Qc7×Pf7 Ke7-d6 23.Qe5×Pc7 Ke8-e7 24.e2-e4 Qd7-e6 25.Qe3×Pe5+ e7-e5 26.Qd2-e3 Qd8-d7 27.Qd1-d2 d7-d5 28.d2-d4

Record: the longest determined retroplay for fairy Aristocrat.