

Chess Endgame News

Article

Published Version

Chess notation

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Haworth, G. M^cC. (2014) Chess Endgame News. *ICGA Journal*, Vol. 37, No. 2, pp. 117-19.

Annotation of lines in the associated pgn file. The positions of Table 1 are tagged, e.g., ‘position a’. Notation:

- ''' only value-preserving move, given the strategy of play and, for SZ_{50}' , the context of the line,
- ''' a '''-move after ignoring a move which merely reverses the effect of the last two ply,
- '' a uniquely-optimal move, given the defined strategy,
- ' an equi-optimal move, given the defined strategy, and
- the only move available.

[White "KP"]
[Black "KBB"]
[Result "1-0"]
[Date "2014.08.15"]
[Event "5m, 2-3m, KP KBB, GBR 0060.10: SZ_{50}' v SZ "]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "3k4/P7/5b2/5K2/8/8/2b5/8 w - - 0 1"]
[PlyCount "19"]

{position a: $v = 2$, $dtz/z_{50}' = 7/19p$ }
{ $SV^+Z_{50}'/SV^+Z_{50}^+$ 1. Kf4''' Bg5+' 2. Ke5'''
($\{SZ/SZ^+\}$ 2. Kf3?'' { $v = -1$: $dtz_{50}' = 2p$ } Bd1+?'' { $v = 2$: $dtz_{(50)} = 3p$. 2. ... (Ke7/Bf5)'''} 3. Kg2'' Kd7'
4. a8=Q''' {KQKBB: $v = -2$, $dtz_{(50)} = 6p$ }
2... Bf6+' 3. Kd5'' Bb3+' 4. Kc6''' Ba4+' 5. Kd6''
{position b: $v = -2$, $dtz/z_{50}' = 8/10p$ } Be7+' 6. Kd5'''
{position c: $v = -2$, $dtz/z_{50}' = 6/8p$ } Bb3+' 7. Ke4'''
{position d: $v = -2$, $dtz_{(50)} = 6p$ } Bc2+' 8. Kf3'' Bd1+' 9. Kg2'' Kc8' 10. a8=Q+'''
{KQKBB: $v = -2$, $dtz_{(50)} = 6p$ } {MB 'Nalimov' $DTZ_{(50)}$ and de Man DTZ_{50}' EGTs} *

[White "KBN"]
[Black "KP"]
[Result "1-0"]
[Date "2014.08.29"]
[Event "5m, 3-2m, KBN KP, GBR 0011.01: SZ_{50}' v SZ "]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "8/8/2K5/2N4B/8/1k6/1p6/8 b - - 0 1"]
[PlyCount "9"]

{position zb: $v = -1$, $dtz/z_{50}' = 18/7p$ }
{ $SV^+Z_{50}'/SV^+Z_{50}^+$ 1. ... Ka2'' 2. Bf7+''' Ka3'''
($\{SZ/SZ^+\}$ 2... Kb1' 3. Bg6+' Ka1'' 4. Nb3+''' Ka2° 5. Nd2''' Ka3'' 6. Bb1' Kb4' 7. Kd5'' Ka4' 8. Nc4' Kb3'' 9.
Kd4'' Ka4' 10. Nxb2+' {KBNK: $v = -2$, $dtx = 46p$ }
3. Bg6''' Ka2''' 4. Na4''
{position zc: $v = -1$, $dtz/z_{50}' = 11/1p$ } b1=N''' {KBNKN: $v = 1$, $dtz_{(50)} = 109p$ }
{MB 'Nalimov' DTZ and de Man DTZ_{50}' EGTs} *

[White "KNN"]
 [Black "KP"]
 [Result "1-0"]
 [Date "2014.09.30"]
 [Event "5m, 3-2m, KNNKP, GBR 0002.01: SZ₅₀' v SZ"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "8/8/1N6/p7/8/4N3/8/K1k5 w - - 0 1"]
 [PlyCount "86"]

{position zf: v = 2, dtz/z₅₀' = 2/86p}

{SV⁺Z₅₀'/SV⁺Z₅₀'⁺} 1. Na4⁺

{(SZ/SZ⁺) 1. Nec4'? a4⁺ {v = 1, dtz₅₀' = 126p} {(SZ/SZ⁺) 1. Nbc4'? a4[°] {v = 1, dtz₅₀' = 130p}}

1... Kd2° 2. Nc4+° Kd3'' 3. Ncb2+° Kd2' 4. Kb1' Ke3'' 5. Kc1' Ke2'' 6. Kc2'' Ke3'' 7. Kc3'' Ke4'' 8. Nd3' Ke3' 9. Ndc5'' Kf4'' 10. Kd4'' Kf5'' 11. Nd3' Ke6' 12. Ke4'' Kd6' 13. Nf4' Kc6' 14. Ne2'' Kd6'' 15. Nd4'' Ke7'' 16. Ke5'' Kf7'' 17. Kf5'' Ke7' 18. Nb5'' Kd7' 19. Ke5'' Kc6'' 20. Na3'' Kd7'' 21. Nc5+'' Ke7'' 22. Ne4'' Kf7'' 23. Kd6'' Kg7'' 24. Ke6'' Kg6'' 25. Nc4'' Kg7'' 26. Ned2' Kg6' 27. Nf3'' Kh6' 28. Kf5'' Kg7' 29. Ng5'' Kf8' 30. Kf6'' Ke8'' 31. Ke6'' Kf8'' 32. Nh3'' Kg8'' 33. Nf4' Kg7'' 34. Ke7'' Kh6' 35. Kf6'' Kh7'' 36. Ne2' Kh6' 37. Ng3'' Kh7'' 38. Nf5'' Kg8' 39. Ke7'' Kh8'' 40. Ne5' Kh7' 41. Ke8' Kg8' 42. Ng6'' Kh7''

{position zg: v = 2, dtz(s₀') = 2p} 43. Kf7'' a4°

{KNNKP(a4): v = 2, dtz(s₀') = 4p} {MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KNN"]
 [Black "KP"]
 [Result "1-0"]
 [Date "2013.10.20"]
 [Event "5m, 3-2m, KNNKP, GBR 0002.01, maxDTZ s6m w&l: SV⁺Z₅₀'/SV⁺Z₅₀'⁺"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "K7/N7/k7/8/3p4/8/N7/8 w - - 0 1"]
 [PlyCount "164"]

{a maxDTZ₅₀' wtm 50-move-draw and 1 of 18 maxDTZ s6m wtm 'wins'}

{position zh: v = 1, dtz(s₀') = 164p} {KNNKP(d4)}

{SV⁺Z₅₀'/SV⁺Z₅₀'⁺} 1. Nb4⁺

{1 of 13 maxDTZ s6m btm 'losses'} Kb6'' 2. Nd3'' Kc7'' 3. Nb5+'' Kc6'' 4. Na3'' Kb6'' 5. Nc2' Kb5' 6. Kb7' Kc4'' 7. Ncb4' Kb5'' 8. Kc7'' Kc4' 9. Kb6' Kc3'' 10. Kc5' Kb3'' 11. Kd5' Kc3'' 12. Ke4'' Kd2'' 13. Kf3'' Kd1'' 14. Na6'' Kd2'' 15. Nac5'' Kd1'' 16. Ne4'' Kc2° 17. Ke2'' Kb3'' 18. Kd2' Kc4'' 19. Nec5' Kb5' 20. Kc2'' Kc6' 21. Kb3' Kc7' 22. Kb4'' Kc6'' 23. Ka5'' Kd6'' 24. Kb6'' Kd5'' 25. Kb5'' Kd6° 26. Kc4'' Kc6' 27. Ne4'' Kd7' 28. Kd5'' Ke7' 29. Ke5'' Kd7'' 30. Kf6'' Kc7'' 31. Ke7'' Kc6'' 32. Ke6'' Kc7'' 33. Kd5'' Kd7'' 34. Nf6+'' Ke7'' 35. Ke5'' Kf7'' 36. Nd5'' Kg6'' 37. N5b4' Kg5'' 38. Nc2'' Kg6'' 39. Ke6'' Kg7'' 40. Na3'' Kf8'' 41. Nb5'' Ke8'' 42. Nc7+'' Kd8'' 43. Kd6'' Kc8° 44. Ne6'' Kb8' 45. Kc5'' Ka7'' 46. Kc6'' Ka6'' 47. Nec5+° Ka5'' 48. Ne4' Ka6' 49. Nd2'' Ka5'' 50. Kc5'' Ka6'' 51. Nc4'' Kb7'' 52. Kd6'' Kc8'' 53. Na5'' Kd8'' 54. Nb7+'' Ke8'' 55. Ke6'' Kf8° 56. Nd6'' Kg7'' 57. Kf5'' Kh6'' 58. Kf6'' Kh5'' 59. Ne4' Kg4'' 60. Ng5'' Kh4'' 61. Kf5'' Kg3'' 62. Ke4'' Kg4'' 63. Nf7'' Kg3' 64. Nfe5'' Kh4'' 65. Kf5'' Kh5'' 66. Ng4'' Kh4° 67. Nf6'' Kh3'' 68. Ke5'' Kg3'' 69. Ke4'' Kh3'' 70. Kf3'' Kh4'' 71. Kf4'' Kh3° 72. Ne4' Kh4'' 73. Ng3'' Kh3° 74. Nf5'' Kg2' 75. Kg4'' Kg1' 76. Ng3'' Kg2' 77. Ne4'' Kg1' 78. Kg3' Kf1'' 79. Kf3'' Kg1° 80. Nd2'' Kh2' 81. Nf2'' Kg1'' 82. Kg3'' d3° **{KNNKP(d3): v = 2, dtz(s₀') = 2p}**

{MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KNN"]
 [Black "KP"]
 [Result "1-0"]
 [Date "2014.11.07"]
 [Event "5m, 3-2m, KNNKP, GBR 0002.01: SZ₅₀' v SZ"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "8/8/4N3/8/7p/5k1N/8/K7 w - - 0 1"]
 [PlyCount "120"]

{position zj: v = 1, dtz/z₅₀' = 108/120p}

{SV⁺Z₅₀'/SV⁺Z₅₀'} 1. Nef4' Ke3' 2. Kb2'' Kf3' 3. Kc3'' Ke4'

{(SZ/SZ⁺) 3...} Ke3'' 4. Kc4' Ke4'' 5. Nd3'' Kf5'' 6. Kd5'' Kg4' 7. Ndf2+' Kf5'' 8. Ne4'' Kg4'' 9. Neg5'' Kf5'' 10. Kd4'' Kf6'' 11. Ke4'' Ke7'' 12. Ke5'' Kd7'' 13. Kd5'' Kc7'' 14. Ne4' Kb6'' 15. Nd6'' Ka5'' 16. Kc5'' Ka4'' 17. Ne4'' Kb3'' 18. Kb5'' Ka3'' 19. Kc4' Ka4'' 20. Nc3+' Ka5'' 21. Nd5' Ka6'' 22. Kc5'' Ka7'' 23. Kc6'' Ka6'' 24. Nb6'' Ka5' 25. Kc5'' Ka6° 26. Nc4'' Kb7'' 27. Kd6'' Kc8'' 28. Na5'' Kb8'' 29. Kd7'' Ka7'' 30. Kc6'' Kb8'' 31. Nc4'' Kc8'' 32. Ne3'' Kb8' 33. Nf5'' Kc8'' 34. Ne7+' Kd8'' 35. Kd6'' Ke8° 36. Nc6'' Kf8'' 37. Kd5' Kf7'' 38. Ke5'' Kf8'' 39. Kf6'' Ke8'' 40. Ke6'' Kf8° 41. Na5' Kg7' 42. Nc4' Kf8'' 43. Nd6'' Kg8'' 44. Ke5' Kg7'' 45. Kf5'' Kg8'' 46. Kg6'' Kf8'' 47. Kf6'' Kg8° 48. Nb5' Kh7' 49. Nd4'' Kh6' 50. Nf5+' Kh5'' 51. Ne3'''' Kh6° 52. Ng4+' Kh7'' 53. Kf7'' Kh8° 54. Ng5'' h3° **{KNNKP(h3)}** 55. Ne5' h2° 56. Ng6#''

{position zk: v = 1, dtz/z₅₀' = 100/114p} 4. Kc4'' Kf5'' 5. Nd3'' Ke4'' 6. Ndf2+' Ke5'' 7. Kc5'' Ke6'' 8. Ne4'' Kd7'' 9. Kd5'' Ke7''

{position zl: v = 1, dtz/z₅₀' = 98/102p} 10. Kc6'' Ke6''''

{position zm: v = 2, dtz/z₅₀' = 96/100p} 11. Neg5+' Ke5'

12. Kc5'' Kf6'' 13. Kd4' Kf5'' 14. Kd5'' Kf6'''' 15. Ke4'' Ke7'''' 16. Ke5'' Kd7'''' 17. Kd5'' Kc7'' 18. Ne4' Kb6'' 19. Nd6'' Ka5'' 20. Kc5'' Ka4'''' 21. Ne4'' Kb3'' 22. Kb5'' Kb2'' 23. Kb4'' Kc2'' 24. Kc4'' Kb2'' 25. Nc5'' Kc2'' 26. Nb3'' Kb2'' 27. Nd4'' Ka3'' 28. Kb5'' Ka2''

{position zn: v = 2, dtz/z₅₀' = 44/64p} 29. Ka4''

{position zo: v = -2, dtz/z₅₀' = 63/63p} Kb2' 30. Kb4'' Kc1'' 31. Kc3'' Kd1'' 32. Kd3'' Kc1'' 33. Nb3+' Kb2'' 34. Nc5'' Kc1'' 35. Na4'' Kb1'' 36. Kd2'' Ka2'' 37. Kc3'' Kb1'' 38. Nc5'' Kc1' 39. Nb3+' Kb1'' 40. Nd2+' Ka2'' 41. Nc4'' Kb1'''' 42. Kd2'' Ka2'''' 43. Kc2'' Ka1° 44. Kb3'' Kb1° 45. Nb2'' Kc1'''' 46. Kc3'' Kb1° 47. Nd3'' Ka2'' 48. Kb4'' Kb1'' 49. Kb3'' Ka1° 50. Ne1' Kb1° 51. Nf3'' Kc1'' 52. Kc3'' Kb1'' 53. Nf2' Ka2'' 54. Nd1' Kb1' 55. Nb2' Kc1' 56. Nd3+' Kd1'' 57. Nf4'' Kc1'' 58. Ne2+' Kb1'' 59. Kb3'' Ka1'' 60. Nd2' h3° **{MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs}** *

[White "KQP"]
[Black "KQ"]
[Result "1-0"]
[Date "2013.11.16"]
[Event "5m, 3-2m, KQPKQ, 4000.10: SZ₅₀' v SZ"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "8/8/1P5Q/1K6/3q4/8/5k2/8 w - - 0 1"]
[PlyCount "99"]

{position f, a max known 'dtz₅₀-dtz' win: v = 2, dtz/z₅₀' = 1/99p}

{SV⁺Z₅₀'/SV⁺Z₅₀'⁺} 1. Qg5'''' {v = -2, dtz(z₅₀) = 98p}

({SZ/SZ⁺} 1. b7??' {v = -1, dtz(z₅₀) = 102p})

1. ... Qe4'' 2. Kc5'''' Qc2+'' 3. Kd5' Qb3+'' 4. Kc6'''' Qe6+'' 5. Kc5'''' Qc8+'' 6. Kd4'''' Qh8+'' 7. Kc4'''' Qh7' 8. Qd5'''' Qc2+'' 9. Kb4' Qb2+'' 10. Kc5'''' Qa3+'' 11. Kc6'''' Qa4+'' 12. Kd6' Qf4+'' 13. Kd7'''' Qg4+'' 14. Qe6'''' Qg7+'' 15. Kd6'''' Qg3+'' 16. Kc5'''' Qg5+'' 17. Kc4' Qc1+'' 18. Kd5'''' Qb2'' 19. Qg6'''' Qb5+'' 20. Kd4'''' Qb4+'' 21. Ke5'''' Qc5+'' 22. Kf4'''' Qd4+'' 23. Kf5' Qc5+'' 24. Kg4'''' Qd4+'' 25. Kh5'''' Qd5+'' 26. Kh6'''' Ke1'' 27. Qg1+'''' Ke2'' 28. Qg4+'''' Kf1'' 29. Qg5'''' Qc6+'' 30. Qg6'''' Qb7'' 31. Qf6+'''' Ke2'' 32. Kg5'''' Ke3'' 33. Qe5+'' Kf2'' 34. Qc5+'''' Ke2'' 35. Kf4'''' Qf3+'' 36. Ke5'''' Qg3+'' 37. Ke6'''' Qh3+'' 38. Kd6'''' Qh6+'' 39. Kc7'''' Qg7+'' 40. Kc6'''' Qf6+'' 41. Qd6'''' Qc3+'' 42. Kd7'''' Qf3'' 43. Kc8' Qc3+'' 44. Kd8'''' Qa5'' 45. Ke7'''' Qb5' 46. Qf6'''' Qb1' 47. Kf7' Qh7+'' 48. Kf8'''' Qb1' 49. Qe7+'''' Kd1' 50. b7'''' **{KQP(b7)KQ: v = -2, dtz(z₅₀) = 22p}**

{MB 'Nalimov' DTZ₍₅₀₎ and de Man DTZ₅₀' EGTs} *

[White "KRP"]
[Black "KP"]
[Result "1-0"]
[Date "2014.08.07"]
[Event "5m, 3-2m, KRPKP, GBR 0100.11: SZ₅₀' v SZ"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "6R1/P7/1k6/8/8/p2K4/8 b - - 0 1"]
[PlyCount "2"]

{position e: v = -1, dtz/z₅₀' = 2/1p}

{SV⁺Z₅₀'/SV⁺Z₅₀'⁺} 1. ... a1=Q''''

({SZ/SZ⁺} 1. ... Kb5??' {v = 2, dtz(z₅₀) = 1p})

2. a8=Q'''' {KQRKQ: v = -1, dtz(z₅₀) = 106p} {MB 'Nalimov' DTZ₍₅₀₎ and de Man DTZ₅₀' EGTs} *

[White "KQ"]
 [Black "KBBN"]
 [Date "2014.07.31"]
 [Event "6m, 2-4m, KQKBBN, GBR 1063.00, maxDTZ₅₀' 2-4m_P-less l&w: SZ₅₀' v SZ"]
 [Result "1-0"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "b7/b7/5Q2/8/8/3k4/8/1K1n4 b - - 0 1"]
 [PlyCount "90"]

{1 of 14 maxDTZ₅₀' 2-4m_P-less btm losses}

{position n: v = -1, dtz/z₅₀' = 102/90p}

{SV⁺Z₅₀'/SV⁺Z₅₀'} 1... Bb7'' 2. Qf1+''''

{position o: v = -1, dtz/z₅₀' = 100/88p} Kd2'' 3. Qf4+'''' Kd3'' 4. Qc7'' Nc3+'''' 5. Kb2'''' Na4+'''' 6. Ka3'''' Nc5'''' 7. Qa5'''' Ba6'''' 8. Kb4'' Ke4'''' 9. Qc7'''' Bb7'''' 10. Qh2'''' Nd3+'' 11. Kb5'' Nc5'''' 12. Qe2+'' Kd4'' 13. Qd1+'' Ke4'''' 14. Qb1+'' Kf4'''' 15. Qa2'' Ba6+'''' 16. Kc6'' Ke4'' 17. Qd5+'''' Ke3'''' 18. Qg8'' Bb7+'' 19. Kc7'''' Kd4'' 20. Qg1+'''' Kc4'' 21. Qf1+'' Kd5'''' 22. Qg2+'' Kd4'' 23. Qb2+'' Ke4'''' 24. Kd6'' Ba6'' 25. Qg2+'' Ke3'' 26. Qg7'' Bb7'''' 27. Qg1+'' Kd3'' 28. Qb1+'''' Ke3'''' 29. Ke7'' Ba6'' 30. Qd1'''' Ke4'' 31. Qd8'' Bb7'' 32. Qd2' Ba6'' 33. Qd1'' Bb7'' 34. Qb1+''

{position p: v = -1, dtz/z₅₀' = 36/24p} Ke3'' 35. Kf8'' Ba6'' 36. Qg1+'' Ke4'

{(SZ/SZ⁺)} 36... Kd2'' 37. Qg2+'''' Kc1'' 38. Qa2'' Bb6'' 39. Kf7' Bd3'' 40. Kg8'''' Bc2'' 41. Qa3+'' Kd1'' 42. Qf3+'' Kc1'' 43. Qf4+'' Kb1'' 44. Qb4+'''' Bb3+'' 45. Kg7' Ba7'' 46. Kh6'' Kb2'' 47. Qd2+'' Bc2'' 48. Qf2' Kc3' 49. Qf7'' Bb8'' 50. Qf8'''' Nd7' 51. Qc8+'''' Kb3' 52. Qxd7'' **{KQKBB: v = -1, dtz(z₅₀') = 104p}** 37. Qg2+'''' Kf4'' 38. Qa8' Bb6'' 39. Kg7' Bb7' 40. Qe8' Ba7'' 41. Kh6''

{position q: v = -1, dtz/z₅₀' = 24/10p} Kf5' 42. Qe7' Kg4'''' 43. Qf6'

{position r: v = -1, dtz/z₅₀' = 14/6p} Kg3' 44. Qa1'

{position s: v = -1, dtz/z₅₀' = 6/4p} Bb8''''

{position t: v = 1, dtz(z₅₀') = 3p} 45. Qg1+'' Kf3'

{position u: v = 1, dtz(z₅₀') = 1p} 46. Qxc5'' **{KQKBB: dtz(z₅₀') = 122p}**

{MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KBB"]
[Black "KNN"]
[Date "2014.08.15"]
[Event "6m, 3-3m, KBBKNN, GBR 0026.00: SZ₅₀' v SZ"]
[Result "1-0"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "8/8/6n1/8/4B3/k7/n1K4B/8 b - - 0 1"]
[PlyCount "14"]

{position h: v = -2, dtz/z₅₀' = 14/56p}

{SV⁺Z₅₀'-/SV⁺Z₅₀'⁺} 1... Nh8''

{(SZ/SZ⁺) 1...Nb4+' 2. Kc3'''' Na2+' 3. Kc4'' Nh8'' 4. Bd6+' Ka4'' 5. Bc6+' Ka5° 6. Be8'' Kb6' 7. Be5'' Ng6' 8. Bxg6'' {KBBKN: v = -2, dtz(z₅₀') = 10p)}

2. Bd6+''''

{position i: v = -2, dtz/z₅₀' = 10/54p} Ka4'' 3. Bc6+''''' Ka5°

{position j: v = 2, dtz/z₅₀' = 7/51p} 4. Kb3'''' Nc1+' 5. Kc4'''' Nf7'' 6. Bc7+''''' Ka6° 7. Bd5'''' Nh8'' 8. Bf3''

Ng6'' 9. Bd6'''' Nh4'' 10. Be4'''' Ne2'' 11. Bh2'''' Ka5'' 12. Bc7+' Ka6'' 13. Kc5'''' Ka7'' 14. Bd3'' Ng1'' 15. Kc6' Nh3'' 16. Bg3'' Ng2'' 17. Bf1'' Nhf4'' 18. Bf2+''''' Kb8'' 19. Bb6'' Ka8'' 20. Ba6'' Kb8'' 21. Bc4'' Nh5'' 22. Bc7+' Ka7'' 23. Be5'' Nhf4'' 24. Bd6'' Ng6' 25. Kc7'' N2f4'' 26. Bc5+' Ka8° 27. Kc8'' Nh4' 28. Bb5' N~° 29. Bc6#''

{MB 'Nalimov' DTZ₍₅₀₎ and de Man DTZ₅₀' EGTs} *

[White "KBB"]
[Black "KNN"]
[Result "1-0"]
[Date "2014.08.05"]
[Event "6m, 3-3m, KBBKNN, GBR 0026.00, maxDTZ₅₀' KBBKNN l&w: SV⁺Z₅₀'-/SV⁺Z₅₀'⁺"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "8/8/7B/5B2/3K4/8/2k5/n6n b - - 0 1"]
[PlyCount "76"]

{position k: v = -1, dtz(z₅₀') = 76p}

{a maxDTZ₅₀' KBBKNN btm 'loss'}

{SV⁺Z₅₀'-/SV⁺Z₅₀'⁺ but SZ/SZ⁺ selects the same moves} 1... Kb3''

{a maxDTZ₅₀' KBBKNN wtm 'win'} 2. Be6+''''' Kc2'' 3. Ke3'''' Nb3'' 4. Bf5+''''' Kd1'' 5. Bg4+''''' Ke1'' 6. Bg5'''' Kf1'' 7. Be2+' Kf1'' 8. Bc4'''' Nc5'''' 9. Be7'''' Na4'''' 10. Bb3'''' Nb6'''' 11. Kf4'''' Kg2'' 12. Bc5'''' Nd7'''' 13. Bd5+''''' Kh2'''' 14. Bd4'''' Ng3'''' 15. Bf3'''' Kh3'' 16. Kg5'' Kh2'' 17. Kg4'' Nf1'''' 18. Ba8' Nf8'' 19. Bb7'' Nd2'' 20. Bg7'' Ne6'''' 21. Be5+''''' Kg1'''' 22. Bd5'''' Nf8'' 23. Bc3'''' Nf1'''' 24. Kf3'' Nh2+' 25. Kf4'' Kf2'' 26. Bd4+''''' Ke2'' 27. Bc4+''''' Ke1'' 28. Bf7'' Nf1'' 29. Bc3+''''' Ke2'' 30. Bb4'''' Nd7'''' 31. Bc4+''''' Kf2'''' 32. Be7'''' Kg2'''' 33. Bd5+' Kh2'''' 34. Bd6'' Nb6'''' 35. Kf3+' Kh3'''' 36. Be6+''''' Kh4° 37. Bf4'' Kh5'''' 38. Kf2' Kg6'''' 39. Kxf1''

{KBBKN: v = -1, dtz(z₅₀') = 108p} {de Man DTZ₅₀' EGTs} *

[White "KBB"]
 [Black "KQN"]
 [Result "1-0"]
 [Date "2014.08.07"]
 [Event "6m, 3-3m, KBBKQN, GBR 3023.00: SZ₅₀' v SZ"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "1n2K3/7q/6B1/8/8/B7/3k4/8 w - - 0 1"]
 [PlyCount "7"]

{position g: v = 2, dtz/z₅₀' = 1/7p}
{SV⁺Z₅₀'/SV⁺Z₅₀'} 1. Bb4+''''
{(SZ/SZ⁺) 1. Bxh7??'' {v = -1, dtz = 102p)}
 1... Ke3'' 2. Bc5+'''' Kf4'' 3. Bd6+'' Kf3' 4. Bxh7'''' **{KBBKN: v = -2, dtz₍₅₀₎' = 100p}**
{MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KBN"]
 [Black "KBN"]
 [Result "1-0"]
 [Date "2014.08.19"]
 [Event "6m, 3-3m, KBNKBN, GBR 0044.00: SZ₅₀' v SZ"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "2n5/8/8/4N3/4B1b1/2K5/8/1k6 b - - 0 1"]
 [PlyCount "8"]

{position za: v = -1, dtz/z₅₀' = 10/8p}
{SV⁺Z₅₀'/SV⁺Z₅₀'} 1... Ka2'' 2. Bd5+'''' Ka3'' 3. Nc4+'''' Ka2'''' 4. Ne3+'' Kb1''''
{(SZ/SZ⁺) 4... Ka3'' 5. Bb3'''' Ne7' 6. Nc4#')}
 5. Nxg4'' **{KBNKN: v = -1, dtz₍₅₀₎' = 104p} { MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} ***

[White "KBN"]
 [Black "KNN"]
 [Result "1-0"]
 [Date "2014.08.19"]
 [Event "6m, 3-3m, KBNKNN, GBR 0017.00: SZ₅₀' v SZ"]
 [Annotator "Haworth, Guy"]
 [SetUp "1"]
 [FEN "7n/8/6N1/1k6/8/3K4/4B3/n7 w - - 0 1"]
 [PlyCount "21"]

{v = 1, dtz₍₅₀₎' = 21p}
{SV⁺Z₅₀'/SV⁺Z₅₀'} 1. Kc3+'''' Ka4'''' 2. Bd1+'''' Ka3'''' 3. Ne5'''' Ka2'''' 4. Bf3'' Kb1' 5. Bd5'' Kc1'''' 6. Nd3+''''
 Kb1'''' 7. Nf2' Kc1'''' 8. Be4' Nf7'''' 9. Nd3+'''' Kb1'''' 10. Ne5+'' Kc1'''' 11. Nxf7''
{KBNKN: v = -1, dtz₍₅₀₎' = 104p} {MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KNN"]
[Black "KNP"]
[Result "1-0"]
[Date "2014.08.06"]
[Event "6m, 3-3m, KNNKNP, GBR 0005.01, maxDTZ₅₀' KNNKNP w&l: SV⁺Z₅₀'-/SV⁺Z₅₀'⁺"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "n7/3p1K2/8/3N4/8/8/6Nk w - - 0 1"]
[PlyCount "115"]

{dtz₅₀' is a nominal '215p' but an actual 115p as the conversion is to a type-1 'loss', i.e., 50mr draw}

{This position does not therefore challenge KQPKRB's 206p for the maxDTZ₅₀' 3-3m_P-ful record}

{1 of 396 maxDTZ₅₀' KNNKNP wtm 'wins'}

{position zd: v = 1, dtm/z/z₅₀/z₅₀' = 275/115⁺/-/115p, and dtz may be ~150p as Black need not offer the N}

{SV⁺Z₅₀'-/SV⁺Z₅₀'⁺} 1. Nf3'

{1 of 60 maxDTZ₅₀' KNNKNP btm 'losses': v = -1, dtz₅₀/z₅₀' = -/114p} Kg2'''' 2. Nd4'''' Kf2' 3. Kf6'''' Ke1'' 4. Ke5' Kd1'' 5. Ke4'''' Kd2'' 6. Nb3+'''' Kc2'' 7. Nc5'''' Kd2'' 8. Kd4'' Kc2'' 9. Kc4' Kd2'' 10. Nd3'' Kc2'' 11. N3f4'' Kd2'' 12. Kc5'' Kc1' 13. Nd3+' Kd2' 14. Kd4'' Ke2' 15. N3b4'' Kd2'' 16. Kc4'' Ke2' 17. Kc3'' Kd1'' 18. Nc2'' Ke2'' 19. Nd4+'' Kd1'' 20. Nb3' Ke2' 21. Kc2'' Kf3' 22. Kd3'''' Kf2'' 23. Nd4'' Kf1'' 24. Kc3'' Ke1'' 25. Kc2'' Kf1'' 26. Kd1'' Kf2'''' 27. Kd2'' Kf1'''' 28. Nf3'' Kg2'' 29. Ke2'' Kh3'''' 30. Ne5'' Kg3'' 31. Kd3'' Kf2'' 32. Kd2'' Kf1'' 33. Ng4' Kg1'' 34. Kd3' Kg2'' 35. Ke2'' Kg3'' 36. Ne5'' Kh4'' 37. Ke3' Kg5'' 38. Ke4'''' Kh4'' 39. Kf4'' Kh3'' 40. Kf3' Kh4'''' 41. Nf7'' Kh3'' 42. Ng5+' Kh4'''' 43. Kf4' Kh5'''' 44. Ne4' Kh4'' 45. Kf5'' Kh3'' 46. Kg5'' Kh2'' 47. Kg4'' Kg1'' 48. Kf3'' Kf1'' 49. Ke3' Ke1'' 50. Nf2'' Kf1'' 51. Nd3'' Kg2'' 52. Ne5'' Kh3'' 53. Kd4' Kh4'' 54. Nf7'' Kg4'' 55. Ke4'' Kg3'' 56. Ke3'' {dtm = 164p} Kg2'' {SM⁺: d6''} 57. Ke2''

{position ze: v = -1, dtm/z/z₅₀' = 142/38/2p} Nc7'

{(SZ/SZ⁺) 57... Kh2''? {v = 2, dtm/z(z₅₀) = 115/37p} 58. Kf2'' Kh3'' 59. Kf3' Kh4'' 60. Nd6'' Kg5' 61. Ke4' Kg4'' 62. Ke3'' Kg3'' 63. Nf5+'' Kg4'' 64. Nd4'' Kg3'' 65. Ke2'' Kg2'' 66. Nf5'' Kh2'' 67. Kf2'' Kh3'' 68. Kf3'' Kh2'' 69. Nh4' Kh3'' 70. Ng6' Kh2'' 71. Ngf4'' Kg1' 72. Ne3'' Nb6' 73. Kg3'''' Kh1' 74. Nh3' Na4' 75. Ng4' Nc3' 76.

Ngf2#''')

58. Nxc7''''

{KNNKP(d7): v = -1, dtz/z₅₀/z₅₀' = 27/-/1p} d5''''

{KNNKP(d5): v = 1, dtz/z₅₀/z₅₀' = 24/-/2p} 59. Ne6'' d4''''

{KNNKP(d4): v = 1, dtz/z₅₀/z₅₀' = 128/-/128p} 60. Nf4+'''' Kg3' 61. Nd3'''' Kg4' 62. Nfe5+'' Kg3'' 63. Kf1'' Kh4'' 64. Kf2' Kg5'' 65. Kf3'' Kf5'' 66. Nc4'' Kf6'' 67. Kf4'' Ke6'' 68. Ke4'' Kf6'' 69. Kd5'' Ke7'' 70. Ke5'' Kf7'' 71. Kd6'' Kf6'' 72. Nd2'' Kf5'' 73. Ke7'' Kg6'' 74. Ke6'' Kg5'' 75. Ke5'' Kg6'' 76. Ne4'' Kg7'' 77. Kd6'' Kh6' 78. Nd2'' Kg7'' 79. Ke6'' Kf8'' 80. Nc4' Ke8'' 81. Nd6+' Kd8'''' 82. Nb5'' Ke8' 83. Nc7+'' Kd8'''' 84. Kd6'' Kc8° 85. Ne6'' Kb8' 86. Kc5'' Ka7'' 87. Kc6'' Ka6'''' 88. Nec5+'' Ka5'''' 89. Ne4' Ka4' 90. Nd2'' Ka5'''' 91. Kc5'' Ka6'''' 92. Nc4'' Kb7'''' 93. Kd6'' Kc8'''' 94. Na5'' Kd8'''' 95. Nb7+'' Ke8'''' 96. Ke6'' Kf8° 97. Nd6'' Kg7'' 98. Kf5'' Kh6'' 99. Kf6'' Kh5'''' 100. Ne4' Kg4'' 101. Ng5'' Kh4'' 102. Kf5'' Kg3'' 103. Ke4'' Kg4'' 104. Nf7'' Kh5' 105. Kf5'' Kh4° 106. Nfe5'' Kh5'' 107. Ng4'' Kh4° 108. Nf6'' Kh3'' 109. Ke5'' Kg3'' 110. Ke4'' Kh3'' 111. Kf3'' Kh4'' 112. Kf4'' Kh3° 113. Nh5' Kh4'' 114. Ng3' Kh3° 115. Nf5'' Kg2' 116. Kg4'' Kf1' 117. Ng3+'' Kg2' 118. Ne4'' Kh2' 119. Nd2'' Kg2'' 120. Kh4'' Kg1' 121. Kh3'' Kh1° 122. Nf2+' Kg1° 123. Kg3'' d3°

{KNNKP(d3): v = 2, dtz(z₅₀) = 4p} 124. Nd1' Kh1° 125. Nf3'' d2°

{KNNKP(d2): v = 2, dtx = 1p} 126. Nf2#'' {MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs} *

[White "KBBN"]
[Black "KN"]
[Result "1-0"]
[Date "2014.10.03"]
[Event "6m, 4-2m, KBBNKN, GBR 0024.00: SZ₅₀' v SZ"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "8/8/6n1/8/8/2kB4/8/NB1K4 b - - 0 1"]
[PlyCount "15"]

{position zi: v = -1, dtz/z₅₀' = 52/15p}

{SV⁺Z₅₀'/SV⁺Z₅₀'⁺} 1... Ne5'''' 2. Bdc2'''' Kb2'''' 3. Nb3'''' Nc4'''' 4. Nc5'''' Ne3+'''' 5. Kd2'''' Nc4+'''' 6. Ke2' Na3'''' 7. Nd3+'''' Ka1''''

{SZ/SZ⁺} 7... Kc3''?? **{v = 2, dtz(s₀') = 39p}** 8. Kd1'''' Nb5' 9. Ne1'' Nc7' 10. Bf5' Ne8' 11. Bbe4' Nf6' 12. Ke2' Kd4'' 13. Nf3+' Kc5'' 14. Kd3' Nh5' 15. Ng5' Kd6' 16. Kd4'' Nf6' 17. Bb7' Ke7' 18. Ke5' Ne8'' 19. Bc6' Nf6'' 20. Bb5' Nh5'' 21. Nh7' Ng3'' 22. Bbd3' Kd8' 23. Kf4'' Nh5+'' 24. Kg5'' Ng3' 25. Bfe4'' Kc7' 26. Kh4' Kb8' 27. Kxg3'' **{KBBNK: v = -2, dtz = 19p}**

8. Bb3' Nxb1' **{KBNKN: v = -1, dtz(s₀') = 124p}** **{MB 'Nalimov' DTZ and de Man DTZ₅₀' EGTs}** *

[White "KRRP"]
[Black "KQ"]
[Result "1-0"]
[Date "2014.08.07"]
[Event "6m, 4-2m, KRRPKQ, GBR 3200.10: SV⁺Z₅₀'⁻/SV⁺Z₅₀'⁺"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN "7q/7k/8/6R1/8/8/K1P2R2/8 b - - 0 1"]
[PlyCount "387"]

{position m, 1 of 8 maxDTZ₅₀' btm losses: v = -1, dtz/z₅₀' = 383-5/387p}

{SV⁺Z₅₀'⁻/SV⁺Z₅₀'⁺} 1... Qa8+'''' 2. Kb2'''' Qb7+'''' 3. Kc1'''' Qh1+'''' 4. Kd2'''' Qh4'''' 5. Rfg2''s'' Qd4+'' 6. Ke2' Qe4+'' 7. Kd1'' Qf3+'' 8. Kd2'' Qf4+'' 9. Kd3' Qf3+'' 10. Kc4'' Qc6+'' 11. Kb4'' Qe4+'' 12. Kb3'' Qb7+'''' 13. Kc3'' Qc7+'' 14. Kd3'' Qd6+'' 15. Ke2'' Qa6+'' 16. Kd2'' Qd6+'''' 17. Ke1'' Qb4+'' 18. Kd1'' Qd6+'' 19. Rd2'' Qf4'' 20. Rd7+'' Kh6'' 21. Rgd5'''' Qg4+'' 22. Kd2'' Qb4+'' 23. Kd3'' Qa3+'' 24. Ke2'' Qa4'' 25. R7d6+'' Kh7'' 26. Rh5+'' Kg8' 27. Rg5+'''' Kh7'' 28. Kd1'' Qf4'' 29. Rh5+'' Kg7'' 30. Rhd5'' Qg4+'' 31. Kd2'' Qb4+'' 32. Kd3'' Qa3+'' 33. Ke2'' Qa4'' 34. Rd2'' Qe4+'' 35. Kf2' Qf4+'' 36. Kg1'' Qe3+'' 37. Rf2'' Qe1+'' 38. Kg2'''' Qe4+'' 39. Kf1'' Qh1+'' 40. Ke2° Qh5+'' 41. Kd3'' Qb5+'' 42. Ke4'''' Qe8+'' 43. Kd4'' Qb8' 44. Rdf6'' Qb4+'' 45. Kd5' Qa5+'' 46. Ke4'' Qa8+'' 47. Kf5'' Qh1'' 48. Rg6+'' Kh7'' 49. Rg4'' Kh6'' 50. Rgf4'' Qd5+'' 51. Kg4'' Qh5+'' 52. Kg3° Qe5'' 53. Kf3'' Qh5+'' 54. Ke4'' Qe8+'' 55. Kd3'' Qb5+'' 56. Rc4'' Qd5+'' 57. Rd4'''' Qb5+'' 58. Ke4'' Qe8+'' 59. Kf3'' Qc6+'' 60. Ke3'' Qc3+'' 61. Rd3'' Qc5+'' 62. Kf3'''' Qc6+'' 63. Kg3'' Qe4'' 64. Rfd2'' Qe5+'' 65. Kg2'' Qg7+'' 66. Kf3'' Qf7+'' 67. Ke4'' Qb7+'' 68. Rd5'' Qc6'' 69. Kf3' Qc3+'' 70. Kf2'' Kh7'' 71. Re2' Qc4'' 72. Rh5+'' Kg7'' 73. Rhe5' Qf4+'' 74. Kg1'' Qd4+'' 75. R5e3'' Kh6'' 76. Kf1'' Qh4'' 77. Rf2'' Qc4+'' 78. Rd3'' Kg5'' 79. Re2'' Qb4'' 80. Re5+'' Kf6'' 81. Re1'''' Kg5'' 82. Rg3+'' Kh4'' 83. Rge3'' Qb2'' 84. R1e2'' Kh5'' 85. Ke1'' Qc1+'' 86. Kf2° Qh1'' 87. Rd3'' Kh6'' 88. Re6+'' Kg7'' 89. Re7+'' Kg6'' 90. Ke2'' Qh5+'' 91. Kd2'' Qa5+'' 92. Kd1'' Qa1+'' 93. Ke2'''' Qa4'' 94. Rc3'' Qg4+'' 95. Kd3'''' Qd1+'' 96. Kc4'''' Qf1+'' 97. Kb4'' Qb1+'' 98. Kc5'' Qa1'' 99. Ree3'' Qa5+'' 100. Kc4' Qa4+'' 101. Kd3'' Qb5+'' 102. Kd2'' Qa5'' 103. Ke2' Qa6+'' 104. Red3'' Qa4'' 105. Rb3'' Qg4+'' 106. Kd2'' Qg5+'' 107. Re3'' Qa5+'' 108. Kc1'' Qa1+'' 109. Rb1'' Qa5'' 110. Reb3'' Qa2'' 111. Rc3'' Kf5'' 112. Rbb3' Qa1+'' 113. Kd2'''' Ke6'' 114. Re3+'' Kd5'' 115. Red3+'' Ke6'' 116. Ra3'' Qg1'' 117. Kc3'' Qc1'' 118. Ra4'' Qb1' 119. Rh3'' Qe1+'' 120. Kb2'' Qe5+'''' 121. Kb3'' Qd5+'' 122. Rc4'' Qb5+'' 123. Rb4'' Qd5+'' 124. Kb2'' Qe5+'' 125. Rc3'' Kf6'' 126. Rb6+'' Kf7' 127. Rbb3'' Kf6'' 128. Kb1'' Qe1+'' 129. Ka2'' Qe5'''' 130. Rb6+'' Ke7'''' 131. Rb7+'' Kd6'' 132. Rbb3'' Qa5+'' 133. Kb2'' Ke7'' 134. Rb7+'' Kd6'''' 135. Re3'' Qh5'' 136. Rb8'' Qg5'' 137. Rbb3'' Qf6+'' 138. Ka2' Qf7' 139. Re1'' Qf2'' 140. Rd3+'' Kc5'' 141. Rc1'' Kc4' 142. Kb1' Qb6+'''' 143. Rb3'' Qd4'''' 144. Rf1' Kc5' 145. Re1'' Qg4'' 146. Re8'' Kc4' 147. Rd8'' Qf5'' 148. Rdd3'' Qf6'' 149. Ka2' Qe5'' 150. Ra3'' Qh8' 151. Ra4+'' Kc5'' 152. Rg3'' Kb5'' 153. Raa3'' Kb4' 154. Rg6'' Kb5'' 155. Kb1'' Qe5'' 156. Rag3'' Qe8'' 157. Kb2'' Kc5'' 158. Rc3+'' Kd5'' 159. Rg5+'' Kd6'' 160. Rc4'' Qe3'' 161. Rb5'' Qg1'' 162. Rbc5'' Qg2'' 163. Kb3' Qb7+'' 164. Ka4'' Qa8+'' 165. Kb4'' Qb7+'' 166. Rb5'' Qh1'' 167. Rd4+'' Kc6'' 168. Rc5+'' Kb6'' 169. Rd6+'' Kb7'' 170. Rd3'' Kb6'' 171. Rc8'' Kb7'' 172. Rdc3'' Qb1+'' 173. Rb3'' Qf1'' 174. Rc4'' Ka6'' 175. Rc6+'' Kb7'' 176. Kc5+'' Ka7'' 177. Rc7+'' Ka8'' 178. Rc3'' Qe1' 179. Kb5' Qb1+'' 180. Ka4'' Qd1'' 181. Rd3' Qa1+'' 182. Ra3'' Qb2'' 183. Rc5'' Qd4+'' 184. Kb5+'' Kb8'' 185. Rac3' Qd7+'' 186. Kb4' Qd4+'' 187. Ka3'' Ka7'' 188. R5c4'' Qd6+'' 189. Ka2'' Qe6'' 190. Ra3+'' Kb6'' 191. Rb3+'' Ka5'' 192. Rcb4' Qe1' 193. Rb8'' Qe4' 194. Ra8+'' Qxa8° {KRRPKQ: dtz(z₅₀') = 4p} {de Man DTZ₅₀' EGTs} *

[White "KQN"]
[Black "KRBN"]
[Result "1-0"]
[Date "2013.11.14"]
[Event "7m, 3-4m, KQNKRB, GBR 1334.00, maxDTZ s8m_P-less l&w: SV⁺Z₅₀⁻/SV⁺Z₅₀⁺"]
[Annotator "Haworth, Guy"]
[SetUp "1"]
[FEN " 8/1r6/8/6n1/5k2/1b6/3K3N/7Q b - - 0 1"]
[PlyCount "1034"]

{This took the DTC/Z record on or before 26th May 2006 (Krabbé, 2006b)}

{dtz₅₀' = dtz for all positions here as no 1-0 win has a succeeding phase with dtz > 100p:

maxDTZs are KNKRBN (1p), KQKRBN (57p), KQNKBN (34p), KQNKRN (80p) and KQNKRB (52p) }
{1 of 24 maxDTZ s8m_P-less btm losses}

{position v: v = -1, dtz₅₀' = 1034p}

{SV⁺Z₅₀⁻/SV⁺Z₅₀⁺} 1... Rd7+'' 2. Kc3'''' Bd1'' 3. Qf1+'''' Bf3'' 4. Qc1+'''' Kf5'' 5. Kb2'''' Rb7+'' 6. Ka3 Ra7+'' 7. Kb4'''' Rb7+'' 8. Ka5 Ra7+'' 9. Kb6'''' Rb7+'' 10. Ka6'''' Re7'' 11. Qf1 Re6+ 12. Ka7 Re7+'' 13. Kb8 Re8+'' 14. Kc7'''' Re3'' 15. Kc8 Rc3+'' 16. Kb8'''' Kf4'' 17. Qg1'''' Ne4'' 18. Nf1''''

{position w: v = -1, dtz₅₀' = 1000p} Rb3+'' 19. Ka7'''' Rd3'' 20. Qh2+'''' Kf5'' 21. Kb8 Nf6'' 22. Nd2'''' Bd5'' 23. Qf2+'''' Ke5'' 24. Qe2+ Kd4'' 25. Ka7'''' Nd7'' 26. Qg4+'''' Kc5'' 27. Qg1+'''' Kb4'' 28. Qb1+'''' Kc3'' 29. Qc1+ Kd4 30. Qb2+ Kc5'' 31. Qc2+'''' Kd4'' 32. Qa4+'''' Kc5'' 33. Qa5+'''' Kd4'' 34. Qb4+ Ke5'' 35. Ka6 Kf5 36. Qb1 Ne5 37. Kb5'''' Bc6+ 38. Kb4'''' Bd5'' 39. Qf1+ Kg6 40. Qe2 Kf6 41. Qh5 Ke6 42. Qg5 Nc6+'' 43. Kb5 Ne5'' 44. Qh6+ Kf5'' 45. Nf1 Bc6+'' 46. Kb4 Rd4+'' 47. Kb3 Rd3+'' 48. Ka2'''' Bd5+'' 49. Kb1'''' Nc4'' 50. Qh5+'''' Kf6'' 51. Qh4+ Ke6'' 52. Ng3'''' Rb3+'' 53. Kc1'''' Rc3+'' 54. Kd1 Re3'' 55. Nf1'''' Ra3'' 56. Qf4 Kd7 57. Ke1 Kc6 58. Qh6+ Kc5 59. Kf2 Rb3 60. Qh8 Ra3 61. Qb8 Kc6 62. Qb1 Rc3 63. Kg1 Ra3 64. Qc2 Kb6 65. Qf5 Kc5 66. Qf8+ Kb5 67. Qe8+ Kc5'' 68. Qe2 Rf3 69. Qe7+ Kd4 70. Qg7+ Kc5'' 71. Qg5 Kc6'' 72. Qh4 Kb5 73. Qe7 Kb6 74. Qb4+ Kc6'' 75. Qe1 Ra3 76. Qf2 Rf3'' 77. Qd4 Kd6'' 78. Qh4 Kc5'' 79. Nh2 Ra3'' 80. Ng4 Ra1+'' 81. Kf2'''' Ra2+'' 82. Kg3'''' Ra3+'' 83. Kf4 Rf3+'' 84. Kg5° Be6'' 85. Nf6'''' Ne5'' 86. Nh5 Rf5+ 87. Kh6° Ng4+ 88. Kg6'''' Ne5+'' 89. Kh7 Rf7+'' 90. Kh6'''' Ng4+'' 91. Kg5 Ne5'' 92. Qa4'''' Rf5+'' 93. Kh6'''' Bc4'' 94. Qa5+ Kd4'' 95. Qb6+ Kd5'' 96. Qd8+ Ke4'' 97. Qd1 Ke3'' 98. Qc1+ Kd4'' 99. Ng3 Rf6+'' 100. Kh5 Kd5 101. Kh4 Rg6'' 102. Kh3 Bd3 103. Qf4 Rg8'' 104. Qb4 Bc4 105. Qd2+ Ke6'' 106. Qh6+ Kd5'' 107. Qh7 Kc5'' 108. Kh2 Rg6'' 109. Qe7+ Kd5'' 110. Qd8+ Ke6'' 111. Qf8 Kd5'' 112. Kh3 Bb5'' 113. Qa3 Bc6'' 114. Kg2 Rf6'' 115. Kh2 Nf3+ 116. Kh3'' Rh6+'' 117. Kg2'''' Nd4'' 118. Qe7 Kc4+'' 119. Kg1'''' Rg6 120. Qf7+ Re6'' 121. Qf4 Kd3 122. Qf1+ Kc3'' 123. Qc1+ Kb4 124. Kh2 Rf6 125. Kh3 Bd7+'' 126. Kg2'''' Bc6+'' 127. Kh2'''' Rf3 128. Qd1 Kc5 129. Nh5 Kd5 130. Qh1 Ke6 131. Qg1 Ke5 132. Qg7+ Ke4'' 133. Qc7 Kd5 134. Nf4+ Kc4'' 135. Qb8 Rc3 136. Qa7 Be4'' 137. Qb6 Bc6'' 138. Qa6+ Kc5 139. Nd3+ Kd6'' 140. Nb2 Rb3 141. Nd1 Nf3+'' 142. Kg3 Nd4+'' 143. Kf2 Rf3+'' 144. Ke1 Kd5'' 145. Qb6 Kc4 146. Qa7 Bb5'' 147. Nf2'''' Nc2+'' 148. Kf1 Bc6'' 149. Qa6+ Kc5'' 150. Qa2 Nd4'' 151. Kg1'''' Rf5'' 152. Kh2 Rh5+'' 153. Kg3'''' Rg5+'' 154. Kf4'''' Rf5+'' 155. Kg4'''' Bf3+'' 156. Kh4 Rh5+'' 157. Kg3° Rg5+'' 158. Kf4'''' Rf5+'' 159. Ke3'''' Re5+'' 160. Kd3'''' Be2+'' 161. Kd2'''' Kb4'' 162. Qg8 Bb5'' 163. Qg4 Re2+ 164. Kc1'''' Kc4 165. Nd1'''' Rc2+ 166. Kb1° Rd2'' 167. Qc8+ Bc6'' 168. Qg8+'''' Kb4'' 169. Nb2 Be4+'' 170. Ka2'''' Nb5'' 171. Qb3+'''' Ka5 172. Ka1'''' Bd5'' 173. Qa4+'''' Kb6° 174. Qb4'''' Rd4'' 175. Qe1 Be4 176. Nd1 Rc4 177. Qe3+ Kc6 178. Kb2 Rc2+ 179. Kb3 Nd6 180. Qh6 Rc5 181. Nc3 Bd5+ 182. Kc2 Kd7 183. Qg7+ Kc6 184. Kd1 Bf7 185. Kd2 Bc4 186. Ke1 Ra5 187. Qf6 Rf5 188. Qg6 Kc7 189. Qg7+ Rf7 190. Qg3 Kc6 191. Qg2+ Kc7 192. Qh2 Kc6 193. Qh1+ Kc5 194. Qh8 Re7+ 195. Kd1'''' Re8 196. Qh2 Re3 197. Kc2 Rd3 198. Qe5+ Kc6'' 199. Qh5 Rg3 200. Qa5 Rh3 201. Kd2 Rh2+ 202. Ke3 Rh3+ 203. Kf4 Rd3'' 204. Na4 Rd4+'' 205. Kf3 Rd3+'' 206. Kg4 Rd4+ 207. Kh3 Ne4 208. Qa7 Be6+ 209. Kg2'''' Rb4 210. Qa6+'''' Kd5 211. Kf3 Kd4 212. Qe2 Kd5'' 213. Ke3 Bd7'' 214. Nb2 Bb5'' 215. Qh5+ Ke6 216. Nd1 Nf6 217. Qh3+ Kf7 218. Kd2 Rd4+ 219. Kc1 Rc4+ 220. Kb2 Rb4+ 221. Ka3 Ra4+ 222. Kb3'''' Rd4 223. Nc3 Bc4+ 224. Kc2'''' Be6 225. Qe3 Rh4 **{and here, this SZ line diverges from SM}** 226. Qa7+ Kg6 227. Ne2 Rb4 228. Kc1 Rc4+ 229. Kb2 Rb4+ 230. Ka3 Rb3+ 231. Ka4'''' Rf3'' 232. Qd4 Bd7+ 233. Kb4 Be6 234. Qc5 Bd7 235. Qd6 Bg4 236. Nd4 Rd3'' 237. Kc4 Re3'' 238. Nc6 Bc8 239. Qh2 Re4+ 240. Kc5 Bb7 241. Qg1+ Kh7 242. Na7 Rg4 243. Qh2+ Kg6'' 244. Nb5 Rg2 245. Qh3 Rg5+'' 246. Kb4 Bg2 247. Qh2 Bd5 248. Nd6 Ne4 249. Nc8 Nf6'' 250. Qd6 Rh5 251. Qc7 Kg5 252. Qe5+ Kg6''

253. Qe3 Kh7 254. Qd3+ Kg7 255. Nd6 Rg5 256. Ka4 Rh5 257. Qg3+ Kh7 258. Kb4 Kh6'' 259. Ka3 Rg5 260. Qc3 Kg6'' 261. Qc2+ Kh6 262. Nf5+ Kh5 263. Qd3 Kg6'' 264. Ng3+ Kf7 265. Qe3 Rg8 266. Nf5 Ra8+'' 267. Kb2'''' Ra2+'' 268. Kb1 Ra6 269. Qe7+ Kg6'' 270. Nd6 Rb6+ 271. Kc2 Rb3'' 272. Qe5 Rf3'' 273. Kd2 Bc6 274. Nc4 Bd5 275. Ne3 Be4 276. Ng4 Bb7 277. Qe6''' Kg5 278. Ne5 Rf2+ 279. Kc3 Rf4 280. Nf7+ Kg6'' 281. Nd6 Be4 282. Kd2 Rf2+ 283. Ke1 Rf4 284. Qc4 Kg5 285. Qe2 Bg6 286. Qe5+ Kg4'' 287. Ke2 Bf5 288. Qa1 Nh5 289. Ke3 Bc2 290. Qa8 Bg6 291. Qd5 Ng3 292. Nc4 Nf5+ 293. Ke2'''' Ng3+ 294. Kd2 Kh3 295. Qc6 Re4 296. Qa6 Re2+ 297. Kc3 Be4 298. Qd6 Kg2 299. Kb4 Bf3 300. Ka5 Nf5 301. Qc5 Be4 302. Kb6 Rc2 303. Qb4 Kf2 304. Ne5 Ke3 305. Nd7 Nd4 306. Qa3+ Ke2 307. Ne5 Nf5'' 308. Qa6+ Kf2 309. Qa4 Ng3 310. Qb4 Ke3 311. Nc4+ Kd3'' 312. Nd6 Ke3'' 313. Ka7 Bd3 314. Qb6+ Kf3 315. Qd4 Be4 316. Kb8 Re2 317. Nf7 Bf5 318. Ng5+ Kg2° 319. Qd5+ Be4 320. Qb3 Bf5 321. Qf3+ Kh2'' 322. Qb7 Re8+ 323. Ka7'''' Re2'' 324. Qd5 Rf2 325. Nf3+ Kg2 326. Nd2+ Kh3 327. Qc6 Kg4 328. Qc3 Rf4'' 329. Nc4 Re4'' 330. Ne3+ Kg5'' 331. Qc5 Re6 332. Kb8 Re8+ 333. Kb7 Re6 334. Kc7 Re4 335. Kc6 Re8 336. Kb6 Re4 337. Ka5 Re6 338. Kb5 Re4'' 339. Nd5 Nh5 340. Ne7 Ng3 341. Qc1+ Kh4 342. Qh6+ Kg4'' 343. Nd5 Kf3 344. Qf6 Kg4 345. Qg7+ Kf3'' 346. Qc3+ Kf2'' 347. Qc5+ Kf3'' 348. Ka5 Bg4'' 349. Nf6 Rf4'' 350. Qc6+ Kf2'' 351. Nd5 Re4 352. Qf6+ Bf3 353. Nf4 Ne2 354. Nd3+ Ke3'' 355. Ne5 Rf4 356. Qb6+ Nd4'' 357. Kb4 Ke4'' 358. Nc4 Kf5 359. Qh6 Be2'' 360. Ne3+ Ke5'' 361. Qh8+ Ke4'' 362. Qe8+'''' Kf3'' 363. Nd5'''' Re4'' 364. Qf7+ Kg3 365. Qg6+ Kf3 366. Nf6 Rf4 367. Qh5+ Kg3 368. Qg5+ Kf3'' 369. Kc3 Nb5+'' 370. Kb3'''' Rc4'' 371. Nd5 Nd4+'' 372. Kb2 Rc2+'' 373. Kb1 Ke4'' 374. Nf6+ Kd3'' 375. Nd7 Bf3'' 376. Ne5+ Ke2'' 377. Qh4 Rd2'' 378. Nc4'''' Rd1+ 379. Kb2'''' Rd3'' 380. Qg5 Rb3+ 381. Ka2'''' Rd3'' 382. Qe5+ Kf2 383. Nb2 Rd2'' 384. Qf4 Ke2'' 385. Kb1 Bg2'' 386. Nc4 Rd3'' 387. Qh2 Kf1'' 388. Qh7 Rc3'' 389. Kb2 Rc2+'' 390. Ka3 Rc3+'' 391. Kb4'''' Ne2 392. Ne5 Rh3 393. Qf5+ Ke1'' 394. Nd3+ Kd2'' 395. Nc5 Rg3 396. Qh7 Ke3 397. Qd3+ Kf2'' 398. Qc4 Rc3 399. Qh4+ Rg3 400. Ka5 Kg1 401. Qe7 Kf2'' 402. Qf6+ Ke1 403. Qh4 Kf1'' 404. Qd8 Ke1'' 405. Nd3+ Kd2'' 406. Nb4+ Kc1 407. Qe7 Kd2'' 408. Qd6+ Ke3'' 409. Nc2+ Kf2'' 410. Qe7 Rf3 411. Qh4+ Rg3'' 412. Ka6 Bh3 413. Qf6+ Rf3'' 414. Qa1 Rd3 415. Qe1+ Kf3'' 416. Qb4 Kg3'' 417. Qe7 Kf2'' 418. Ka5 Rc3 419. Qf8+ Rf3 420. Qb4 Rc3 421. Qb6+ Kg3'' 422. Ne3 Nf4'' 423. Nc4 Rf3 424. Qc7 Rf2 425. Qg7+ Kh2'' 426. Qe5 Kg3 427. Qg5+ Kh2 428. Kb6 Bg2 429. Ne3 Bh3 430. Qe5 Kg3 431. Nd5 Kg4'' 432. Qd4 Kg3 433. Qe3+ Rf3'' 434. Qe5 Kg4'' 435. Nf6+ Kg3'' 436. Ne4+ Kg2 437. Qc5 Ne2 438. Qc4 Nf4 439. Qc2+ Kh1 440. Qc5 Bg2 441. Nf2+ Kh2'' 442. Ng4+ Kh3 443. Qg5 Rb3+ 444. Ka5 Ra3+ 445. Kb4 Rf3'' 446. Ne5 Nd5+ 447. Kb5 Rf4'' 448. Kc5 Be4'' 449. Nc6 Rh4'' 450. Qd2 Kg4'' 451. Qe1 Bg2'' 452. Qe6+ Kg3'' 453. Nd4 Nf4'' 454. Qb3+ Kh2'' 455. Qe3 Rh5+ 456. Kd6'''' Rd5+ 457. Ke7'''' Nh3'' 458. Qd2 Kg3 459. Qc3+ Kh2'' 460. Qe3 Rg5 461. Qe2 Nf4 462. Qf2 Rg4 463. Nf5 Nd5+ 464. Ke6 Rg6+ 465. Kd7 Rg4 466. Qe1 Nf6+ 467. Kc7 Ne4 468. Qc1

{position x: v = -2, dtz(s₀') = 100p} Rg5 469. Qf4+'''' Kg1'' 470. Ne3 Rg7+ 471. Kb6 Rg6+ 472. Ka5 Rg5+ 473. Kb4 Rg6 474. Qe5 Bf3 475. Qa1+ Kh2 476. Qb2+ Kh1 477. Qc1+ Rg1 478. Qc8 Rg3 479. Qh8+ Kg1'' 480. Qa1+ Kf2 481. Qd4 Rg5 482. Nf5+ Kg2'' 483. Qb2+ Kh3 484. Ne3 Rh5 485. Nf1 Kg4 486. Qg7+ Kh3 487. Qg1 Rh4 488. Ka3 Rf4 489. Qh2+ Kg4° 490. Ne3+ Kg5° 491. Nd5 Rf7 492. Qe5+ Kh4 493. Ne7 Ng5 494. Ng8 Ne4 495. Nh6 Rf6 496. Nf5+ Kg4 497. Ne3+ Kh4 498. Kb4 Rb6+ 499. Ka5 Rf6'' 500. Qh2+ Kg5° 501. Qh7 Ng3 502. Qg7+ Rg6 503. Qe5+ Kh6 504. Qf4+ Rg5+ 505. Kb6 Be2 506. Qf8+ Kh7 507. Nd5 Bc4 508. Nf6+ Kg6° 509. Nd7 Nh5 510. Qd6+ Kh7 511. Qe7+ Kh6 512. Qe3 Be6 513. Ne5

{position y: v = -2, dtz(s₀') = 10p} Bd5 514. Qd4 Bg8 515. Qd2 Nf6 516. Nf3 Nd5+ 517. Kb7 Kg7

{position z: v = 2, dtz(s₀') = 1p} 518. Qxg5+ **{KQNKBN: v = -2, dtz(s₀') = 8p}** **{MB-YK DTC/Z EGTs}** *