

## *Discarding Like Pieces*

Article

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## DISCARDING LIKE PIECES

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### ABSTRACT

The guideline of ‘discarding like men’ to estimate the merit of a chess position is well known. This note corrects a previous reference to a citation of it – and compares it with some statistics.

After discussing 5-man positions, Beasley and Whitworth (1996) cite a commonly-held guideline: “More complicated positions can usually be evaluated by ignoring like pieces.” They did so after stating the caveat “It is assumed that the position is ‘typical’: in other words, that both sides have organized their forces to reasonable advantage and that neither King is trapped against the side of the board”.

Previously (Nalimov, Wirth and Haworth, 1999), I accidentally misquoted this excellent source, omitting both the ‘usually’ and the *typical positions* caveat. With fulsome apologies to Beasley and Whitworth for the displaced misquote, this note examines to what extent the guideline holds good. The web (Tamplin, 2001) provides full statistics for the 2/4- and 3/5-man comparisons, some statistics, q.v. Table 1, for the 4/6-man comparison from the best estimates available (Wirth, 2000; Hyatt, 2001; Thompson, 2001), and the density of won positions in KQKQ and KQQKQQ after shallow wins are discounted.

Similarities between the 4/6-man percentages are not obvious, so indeed, *untypical positions* should be discounted. These are arguably positions where White or Black can or must force conversion to a successor endgame in a few plies. Current endgame tables show forced wins but not forced draws: some relatively short computations remain to be done to enable these “drawn positions with depth” to be discounted as well.

		<b>4-man Wh. win %</b>	<b>+Q %</b>	<b>+R %</b>	<b>+B %</b>	<b>+N %</b>
<b>KQKQ</b>	wtm	41.74	61.10	67.74	41.81	41.07
	btm	0.45	20.01	19.85	5.43	3.57
<b>KQKR</b>	wtm	99.01	81.84	90.18	----	----
	btm	65.51	37.86	48.28	57.51	59.11
<b>KRKR</b>	wtm	29.12	67.74	47.56	----	----
	btm	0.67	19.85	6.13	2.54	1.78
<b>KRKB</b>	wtm	35.12	----	57.63	52.69	----
	btm	3.23	2.14	9.41	8.22	14.35
<b>KBKN</b>	wtm	ε	45.52	----	11.70	1.69
	btm	0.00	5.70	2.74	0.98	0.05

**Table 1.** Some 4-man/6-man comparisons of White’s winning chances.

### REFERENCES

- Beasley, J. and Whitworth, T. (1996). *Endgame Magic*. Batsford, London, UK. ISBN 0-713-47971-X.
- Hyatt, R. (2001). <ftp://ftp.cis.uab.edu/pub/hyatt/TB/>. Server providing Nalimov’s tables and statistics.
- Nalimov, E.V., Wirth, C., and Haworth, G.McC. (1999). KQQKQQ and the Kasparov-World Game. *ICCA Journal*, Vol. 22, No. 4, pp. 195-212.
- Tamplin, J. (2001). <http://chess.jaet.org/endings/>. Chess endgame site.
- Thompson, K. (2001). <http://cm.bell-labs.com/cm/cs/who/ken/chesseg.html>. 6-man EGTs, maximal positions, maximal mutual zugzwangs and endgame statistics.
- Wirth, C.W. (2000). Personal communication.

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