



## N.6 January 2005 (by Luigi Salemi)



QUESTION



You play 4 Spades with:

♠ KJ74

♥ J62

♦ QJT

♣ AT9

North

♠ AQT3

♥ AK3

♦ 84

♣ K432

South

West attacks of 6 of Diamonds, East wins with the Ace and returns Diamond for the King of the partner. On the return Diamonds East ruff and you ruff. Finally you remove with 2 struck the Spades residual. How played in order to realize 7 of the 8 taken residual?

The best Play Line between:

- Struck of the Honours of Hearts to arrange with finesse repeated to the Honours of Clubs.
- Struck of the Honours of Hearts to arrange with finesse to the Honours of Clubs (that is Queen and Jack in the West) and with squeeze at Hearts/Clubs.



ANSWER



The thing more interesting than this hand is the deep analysis lead from the Prof. Cowan that has examined all the cases and under possible cases not only of the 2 lines that of continuation we will analyze, but also of others 3 then turned out inferior.

### Premised

West has 5 Free Places, East 8. If we refer to the West these can have from 0 to 5 Clubs and the relative probabilities are brought back in the Table that follows.

<b>N° Clubs</b>	0	1	2	3	4	5
<b>Probab.</b>	21/1287	210/1287	525/1287	420/1287	105/1287	6/1287

The center in order to carry out the accounts is not this, I send back who was interested to the article originates them <http://www-personal.usyd.edu.au/~rcowan>, only specific that denominator "1287" obtains itself for permutation of 5 cards in 13 places that is  $\text{perm.}(5, 13) = 1287$ . And obviously the sum of Numerators ago 1287 because the West must have one of the evidenced combinations.

### Line "A"

This line previews a first one finesse to Clubs, in case of failure struck of Ace and the King of Hearts, and finally if the Queen of Hearts does not fall a second finesse to Clubs

- Play the ♥A first, claiming if ♥Q falls or hearts break 0-7 (whence ducking a club to East gives a marked endplay).
- Otherwise lead a club toward dummy intending to play the 10, but covering any honour from W (in which case the remaining clubs yield the needed 3 tricks). Should W show out on the first round of clubs, rise with the A and claim (citing the line "♥K then ♥J").
- If the ♣10 loses to East, win the heart return, claiming if the ♥Q has fallen.
- Otherwise lead clubs again for a second finesse, but if West now shows out of clubs decline the losing finesse and try for a squeeze on East.

We win on:

<b>N. Clubs Of West</b>	<b>Small Analysis</b>	<b>Success</b>
5	We win with the first finesse to Clubs This corresponds to the totality of 6 combinations	6
4	West has Queen of Hearts, or West has QJxx, or Qxxx, or. Jxxx to Clubs. This corresponds to 33/35 of the 105 combinations	99
3	West has QJx, or Qxx, or Jxx to Clubs, or Qx to Hearts This corresponds to 6/7 of the 420 combinations	360
2	West has QJ, or Qx, or Jx to Clubs This corresponds to 3/5 of the 525 combinations	315
1	West has Honours of Clubs, or the Queen of Hearts is in East. Where we move Clubs the second time we see that West has Only one Clubs ed we play the squeeze. This corresponds to 13/21 of the 210 combinations	130
0	We see that West has not Clubs, then we strake Ace and King of Hearts. If we do not see the Queen of Hearts we play Harts, now West return ruff and discard. This corresponds to the totality of 21 combinations	21
	<b>TOTAL</b>	<b>931</b>

The Line "A" win  $931/1287 = 72.34\%$

### Linea "B"

This line previews a first one finesse to Clubs, in case of failure struck of Ace and the King of Hearts, and finally if the Queen of Hearts does not fall the squeeze Hearts/Clubs

- Commence as per line A, winning the heart return from East.
- If ♥Q falls, claim. If West shows out, repeat ♣ finesse losing only if East has ♣QJ.
- Otherwise play the ♣A.
- If the other ♣ honour doesn't drop, cash 2 spades pitching South's ♥3 and retaining the lead in the North hand. The contract makes if clubs were 3-3 originally or on a squeeze if East had the ♥Q and 4+ clubs initially. ( Note : The trumps must have been played as in Line A.)

N. Clubs Of West	Small Analysis	Success
5	We win with the first finesse to Clubs This corresponds to the totality of 6 combinations	6
4	West has Queen of Hearts singleton, or the 2 Clubs of West not are QJ. This corresponds to 33/35 of the 105 combinations	99
3	The Clubs are 3-3, the 4^ Clubs win. This corresponds to the totality of 420 combinations	420
2	West has QJ, or Qx, or Jx to Clubs, or not has the Queen of Hearts This corresponds to 29/35 of the 525 combinations	435
1	West has Honours of Clubs, or the Queen of Hearts. Where we move Clubs the second time we see that West has Only one Clubs ed we play the squeeze. This corresponds to 13/21 of the 210 combinations	130
0	We see that West has not Clubs, then we strake Ace and King of Hearts. If we do not see the Queen of Hearts we play Harts, now West return ruff and discard. This corresponds to the totality of 21 combinations	21
	TOTAL	----- 1111

The Line "B" win  $1111/1287 = 86.32\%$

As you will see, reading the article it originates them of Richard, are quite a lot of accounts to make. In alternative you could have used "The Mill" program inserting the just information, who is too much lazy in order to find alone such information can use already ready Grains to the use. You have result (frequency value) with error minus of 0.1%.