THE BRAIER

APPENDIX 2007

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A quarterly publication
for
the braiding artisan

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A further note related to Issues No.27, pg.624; Appendix 2001; No.52, pg.1218.

The value V for Standard and Semi-Standard Herringbone Pineapple knots in *The Braider*, Issue No.27, pg.624 is equal to the value for $l_h = r_h$ in *The Braider*, Issue No.52, pg.1218. See also Appendix 2001.

For the Standard and Semi-Standard Herringbone Pineapple Knots we have $- - - -$ when $|l_h|_A = |r_h|_A = 0 \equiv A$. Hence $k = |l_h|_A = |r_h|_A = 0 \equiv A$ and hence $|l_h|_A = |r_h|_A = A$ components with $P_c = 3 + \frac{2l_h - 2A}{A} = 3 + \frac{2r_h - 2A}{A} = 1 + \frac{2l_h}{A} = 1 + \frac{2r_h}{A}$ each.

For these components: $l_i + r_i = k + 1 = A + 1$.

$A - |l_h|_A = A - |r_h|_A = A - A = 0$ components with $P_c = 1 + \frac{2l_h - 2A}{A} = 1 + \frac{2r_h - 2A}{A} = -1 + \frac{2l_h}{A} = -1 + \frac{2r_h}{A}$ each.

$x = l_h + r_h + 2 - A = 2l_h + 2 - A = 2r_h + 2 - A$.

Example: $A = 3$, $l_h = r_h = 15$, $B^* = 6$.

$k = |l_h|_A = |r_h|_A = |15|_3 = 0 = \equiv 3$.

$x = l_h + r_h + 2 - A = 15 + 15 + 2 - 3 = 29$.

Since $l_h = r_h$, we have $A = 3$ components, each of which with $P_c = 1 + \frac{2l_h}{A} = 1 + \frac{2r_h}{A} = 1 + \frac{2 \times 15}{3} = 11$.

g.c.d. (P_c, B^*) = g.c.d. $(11, 6) = 1$, hence the three components do not have sub-components. Thus $\lambda = \gamma = 3$ (three essential strings required).