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# APPENDIX 2007

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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  $P_c = 1 + \frac{2l_h}{A} = 1 + \frac{2r_h}{A} = 1 + \frac{2 \times 15}{3} = 11$ .

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



