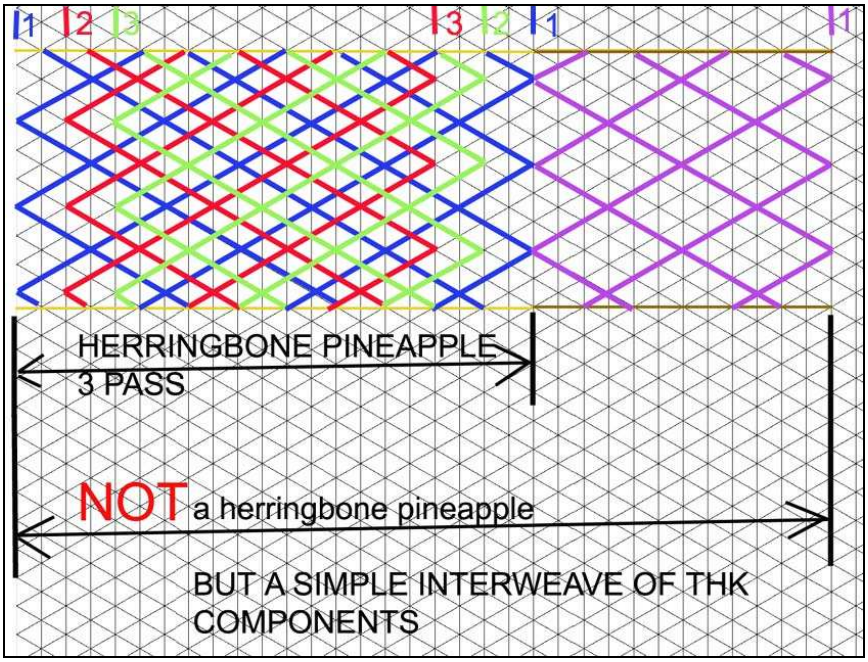
GENERALISATION OF HERRINGBONE-PINEAPPLE ALGORITHM TO NESTED-BIGHT INTERWEAVES THAT ARE CERTAINLY NOT PINEAPPLE.

This is a personal finding : the possibility of generalizing my **PINAPL** and **PINAPL2** HP48GX Programs coming from SCHAAKE & TURNER work on Herringbone-Pineapple knots to **ANY NESTED BIGHT INTERWEAVE OF THK** and probably of not only THK but of some if not all (at least the one with INTER-BIGHT coding as PINEAPPLEand HERRINGBONE have) STANDARD KNOTS (knots made on a THK cordage route but not having the O1-U1 coding of THK)

Same should apply to interweaves following the HERRINGBONE KNOTS model but not having component ofO1-U1 coding ; there I am less sure as verification “in the real world” is yet to be made.



On the diagram just above you have a Herringbone-Pineapple 3-PASS

*__for the first SET__ of THK component
Blue for the **7L 3B** component using
Bight-Rim (boundary) **1-1**
*__for the second SET__
Red for a **5L 3B** using Bight-Rim **2-3**
Green for a **5L 3B** using Bight-Rim **3-2**

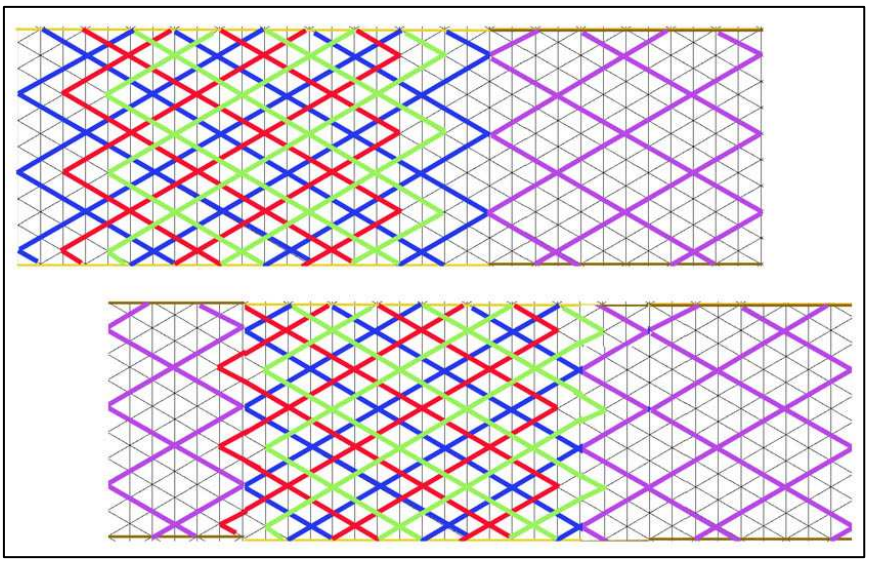
BUT if instead of having a **7L B** at Bight-Rim **1-1** we install on Bight-Rim **1-1** (the right "1" has been pushed along) a **11L 3B** we retain the **NESTED-BIGHT** but we lose the characteristic of **TRUE PINEAPPLE** the 2L discrepancy between the two **SET** of component THK.

So **IT CANNOT BE A PINEAPPLE BUT IT STAY AND INTERWEAVING OF COMPONENT THK** has we have retained the O1-U1 coding for the component.

If this O1-U1 coding is changed then it will not be any more THK components but it will stay an interweave.

Using the **PINAPL2** (if you do not want to go "manual mode paper and pencil" with Schaake's book in hand) in exactly the same fashion AS IF it was a pineapple you will get the coding of crossing for each half-period for interweaving of the Red and Green knots with the Blue knot.
Just follow the diagram above using the coding for each half-period.

Make the Blue **11L 3B** (the largest of the assembly) and chose where you want the Red and Green component and simply use the half-period coding to put them where you want them.
As long as you stay between the **1-1** BIGHT-RIM all will be well.

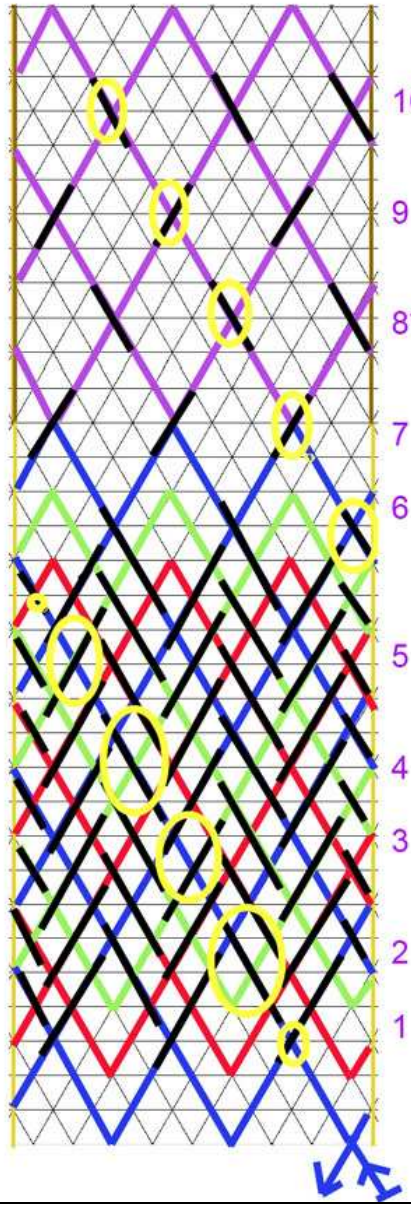


IT IS POSSIBLE to have " distant" NESTED-BIGHT by putting LEFT BIGHT RIM **2** farther from LEFT BIGHT-RIM **1** while retaining the distance between BIGHT RIM **2** AND **3** (if you do not comply with that the half-period coding will be faulty when using **PINAPL** or **PINAPL2** as they are.

To get correct coding you should alter a wee bit the program to accept the entry of the different **SET OF CROSSING** along an **ODD** numbered Half-period in the finished interweave and from Left to Right coding make a Right to Left coding for the **EVEN** numbered Half-periods and have the program read that instead of the "in-built" **O1-U1** coding through out.

The figure on the next page illustrate what I am saying there.

THERE ARE 10 SETS
of CROSSINGS in this
INTERWEAVE with the following coding



U1 O3 U3 O3 U3 O3

U1 O1 U1 O1

which make for a L to R
reading of the type of crossing
coding in the finished knot

U O U O U O U O U O