



TRAWLER

GREEN PEACE BOAT

(COULD BE 'CHAINED' TO PRESENT A FENCE OF TREFOILS)

1 SMALL COULD KNOTTED TUBE (WITH BARS OR RAZOR WIRE?)

2 TUBE UNRAVELS

3 BECOMES TREFOIL IN FLAT FORMAT
TWISTING MECHANISM STARTS

5 RECOVERY OF UNUSED TREFOILS: BUOY & BALLOON INFLATED TO BRING LOOP TO SURFACE.

4 TREFOIL 'OPENS' TO SPACE-FILLING CONFIGURATION & FUZZES TAKE NET.

PROBABLE KNOT TO NET COST RATIO 1:1000, KNOT TO CATCH VALUE RATIO 1:100,000+

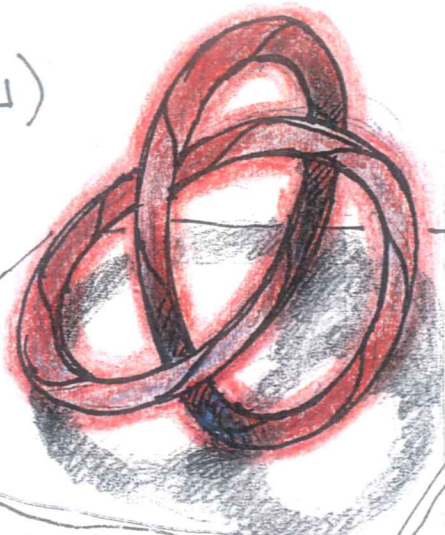
THE DIFFERENCE OF "STRING TWIST."

REITERATION FEB 4/09 (M) (8)

EXAMPLE: A SIMPLE TREFOIL KNOT (LEFT HANDED, AS SHOWN)

BUT AS OPPOSED TO COMMON MATH CONVENTION, WE ALLOW THE 'STRING' TO ALSO HAVE CHIRALITY - AS IN A PHYSICAL SYSTEM WHERE THE ELASTICITY OF THE STRING MEDIUM EXERTS SOME INFLUENCE IN THE CONFIGURATION OF THE KNOT IN 3D. (MANIFOLDS IN 3 SPACE ETC ETC)

$\downarrow H_3(ST \downarrow)$



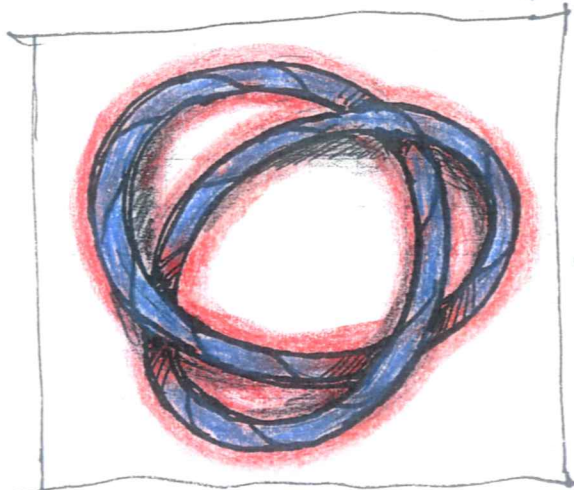
FOR INSTANCE - IN FIG (A) WE HAVE LEFT HANDED KNOT & LEFT HANDED STRING

WHEREAS IN (B)

WE HAVE A LEFT HANDED KNOT BUT A RIGHT HANDED STRING.

SO THAT

(A) TRIES TO FILL 3D VOLUME WHEREAS (B) LIES FLAT, IN QUASI 2 SPACE.



(B) $\downarrow H_3(ST \uparrow)$

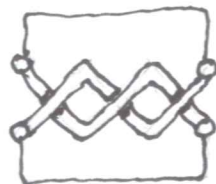
NOTE: MATH NOTATIONS & CONVENTIONS :

RED = LEFT HANDED ALSO \downarrow
 BLUE = RIGHT HANDED " \uparrow

H_3 = HELIX WITH 3 CROSS OVERTS
 ST = STRING TWIST / CHIRALITY



A STANDARD LEFT HANDED TREFOIL BECOMES



IN MY WORLD ($\downarrow H_3$)

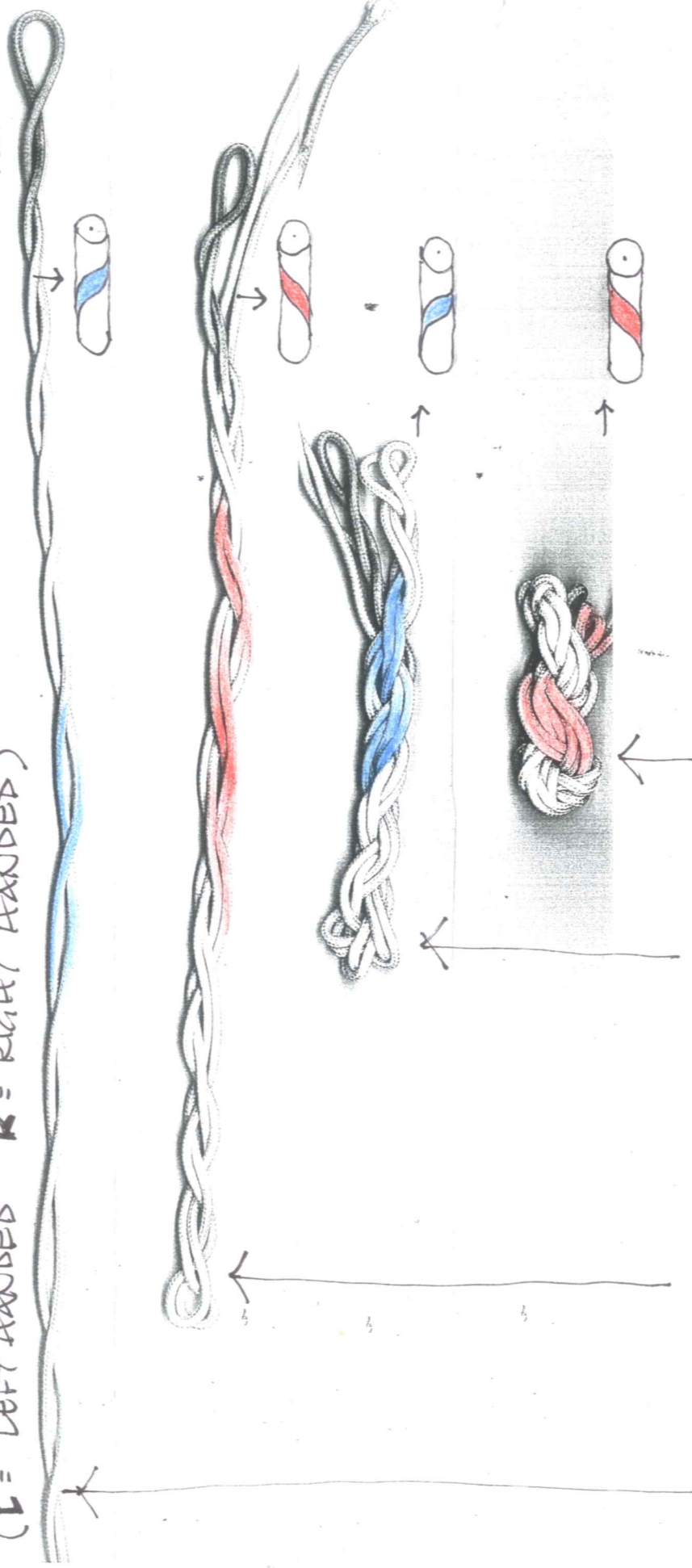
(HOWEVER THIS IS BEYOND THE ISSUE OF SEA WAR WEAPONS)

PHYSICAL [A TWIST ON STRING THEORY]

SEQUENTIAL HANDEDNESS IN TWISTED STRINGS
(L = LEFT HANDED R = RIGHT HANDED)

FEB/07 Mike Whittaker
FROM 195 TORONTO

AFTER A COUPLE OF GLASSES OF WINE, THIS APPEARS (TO ME:) AS AN ILLUSION TO LIKE 'HIBERN' SPATIAL DIMENSIONS OF SUPER STRINGS THEORY...



① PIECE OF STRING TWISTED L 'FOLDS' INTO AN R DOUBLE HELIX,

② MORE R TWISTS TO ① WHICH THEN 'FOLDS' TO AN L HELIX,

③ MORE L TWISTS TO ② GIVES AN R HELIX,

④ MORE R TWISTS GIVES AN L HELIX,

NOTE: 'FOLDS' IS PERHAPS TOO PASSIVE A WORD - WHEN TIGHTLY TWISTED A HELIX LITERALLY SNAPS ON ITSELF TO CREATE ANOTHER HELIX OF OPPOSITE CHIRALITY!

OBSERVATIONS ON UNCOLLING A GARDEN HOSE

FEB/09

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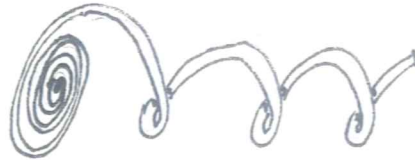
~~THE WAY THEY ALMOST ALWAYS GET TANGLED.~~

NO HELIX - (NO ROTATION PRESERVED)

LEFT
HANDED
HELIX



RIGHT HANDED HELIX



AS DEMONSTRATED WITH THE ALTERNATING CHIRALITY OF ^{TWISTED} A STRING - PULLING A COILED HOSE TO ONE SIDE OR THE OTHER PRESERVES THE ORIGINAL ROTATION, BUT IN THE FORM OF AN ELONGATED HELIX WHICH 'FOLDS' OR SNAPS BACK ON ITSELF TO FORM A DOUBLE HELIX OF OPPOSITE CHIRALITY.

OF COURSE THE HOSE 'DECIDES' WHEN & WHERE TO DOUBLE BACK ON ITSELF LOCALLY - MAKING FIGURES SIMILAR TO X/Y CHROMOSOMES ... & MAY, AT SOME LEVEL, GIVE A DIFFERENT INSIGHT INTO BIO FORMS FROM DNA TO PROTEINS



NOTE: ALL THIS SEEMS SO BASIC AS NOT TO HAVE BEEN OBSERVED PREVIOUSLY - ALTHOUGH I HAVEN'T COME ACROSS THIS BEFORE.