Chaos Control

Orbit the Tool

$$X_{n+1} = F(X_n)$$

By The Darkdoji

Deterministic Trading

Mandelbrotian Randomness   Oscillator Model of markets

Visual , easy to learn and use

Total Control
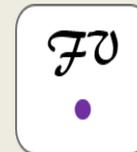
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Preface

1. In the Cloud, Orbit the Tool is configured as a multi-screen trader. To give traders and other users a sense of what we mean and how much better the tool is from the Cloud we introduce for the **Prototype** one of such screens as a beta (or meta) trader in addition to the Control Surface or **Screenface**

2. This is the standard methodology for reading and trading asset markets by the Tool in real-time.

3. It is a methodology that the user must first understand, contemplate and adopt both as a trading surface and a theory of markets to employ effectively.

4. No external concepts or adjustment to for instance lookbacks on adjustable tools provided is called for or indeed welcome at any point, and nothing other than endogenous interpretations of fluctuation is valid for analysis and trade action (by definition chaotic fluctuations are uninfluenced by anything known to man and hence **deterministic**). There are no additional methodologies or indicators that improve the visibility **intended** and therefore the **interpretations** gained by the user in reading and trading market dynamics in real-time by chaos theory and fractal geometry. It is our considered opinion that such activity is more than likely to introduce errors into the trade space and make the Orbit approach ineffective for the user. These points are made as **strictures**.
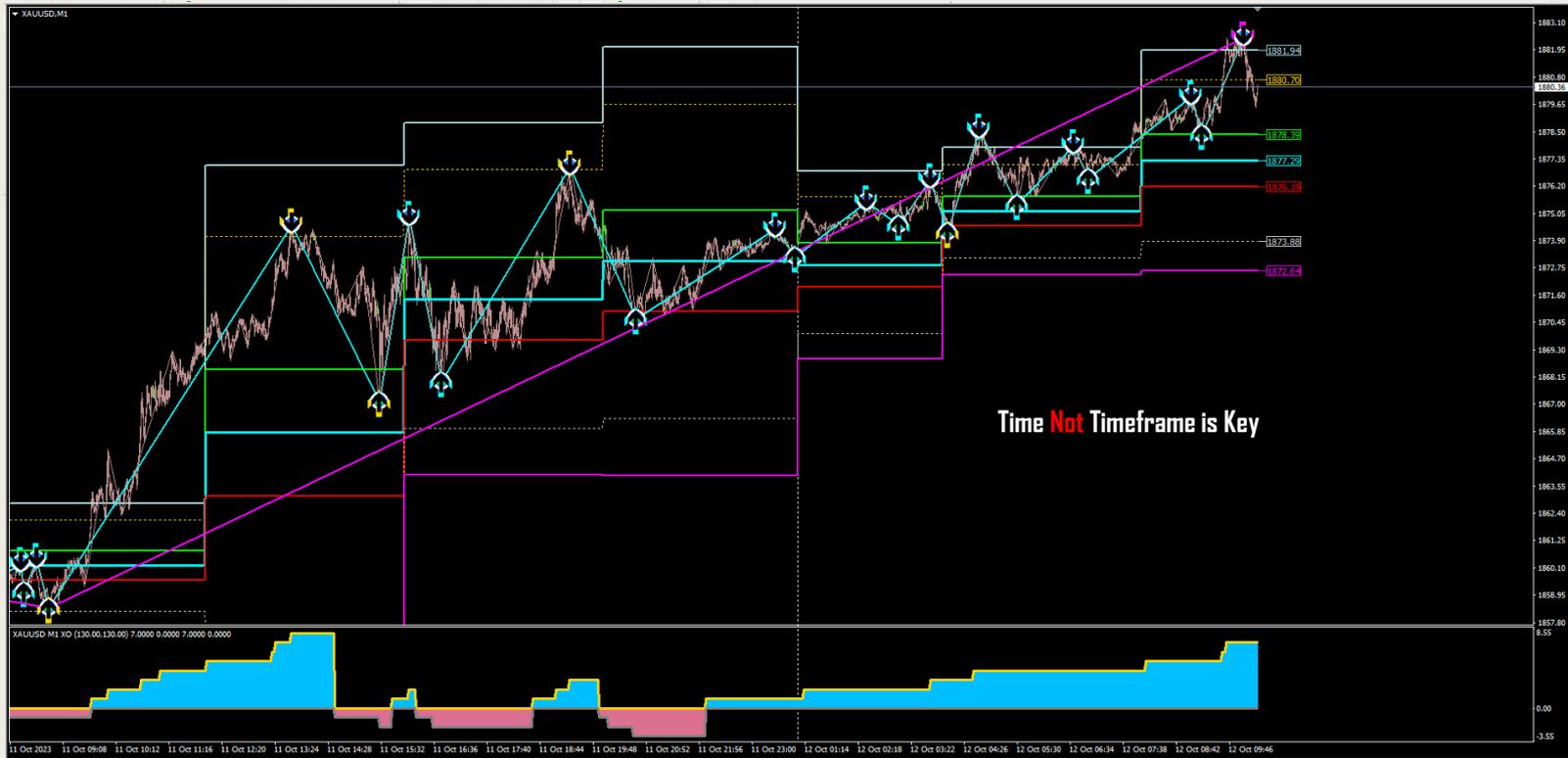
1. The **trade control** screen articulates and presents **ALL** available live trades on any given trade day as they become available and **feasible** (think of this as readymade moves or trades).
2. Moves are weighted Point to Point in the window by a) Aqua b) Gold and c) Magenta Semaphore **Crowns**.
3. Orbit trades are notified by i) a Magenta Zigzag + ii) a Gold or Magenta Semaphore Crown. These points are universally **point matched** in the **nested** system of pivots that define the market as a chaotic system.
4. The trade control screen also serves as your trade monitoring screen to track progress in direction of trades that you decide to take.
5. To manage the trading process in Orbit you **toggle** your view between the **trade control screen** and **Orbit Screenface.**
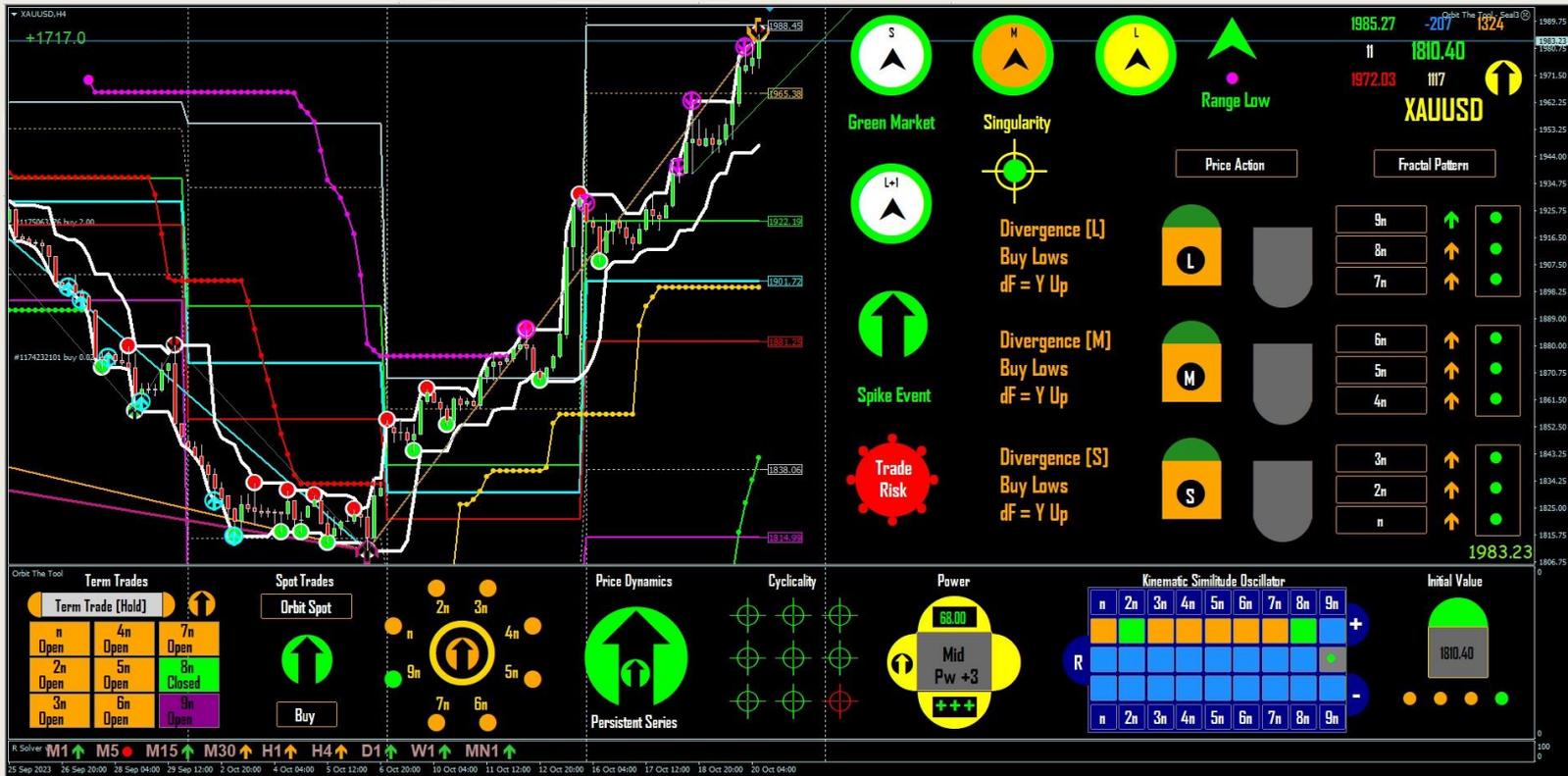
1. Please take your time to understand this **Orbit methodology** by noting that the isolated **buy** trade in trade control (Magenta Zigzag from Gold Crown Low to Magenta Crown High was the only available *sound* trade over that period in the asset). However, the context of that trade could have been either in an **Uprising** as in this screenshot, or in a **Downfalling** as in the next screenshot.
2. Therefore, it is by toggling your view between **Trade Control** and **Screenface** that you gain the full context of price action and assure rational *trade action* every trade.
3. Orbit Screenface provides the point location on the Strange Attractor, the direction of the market, the available Maxout range, and the mathematical ambience that **qualifies** the trade in order to convey rationality in any judgement the trader makes.
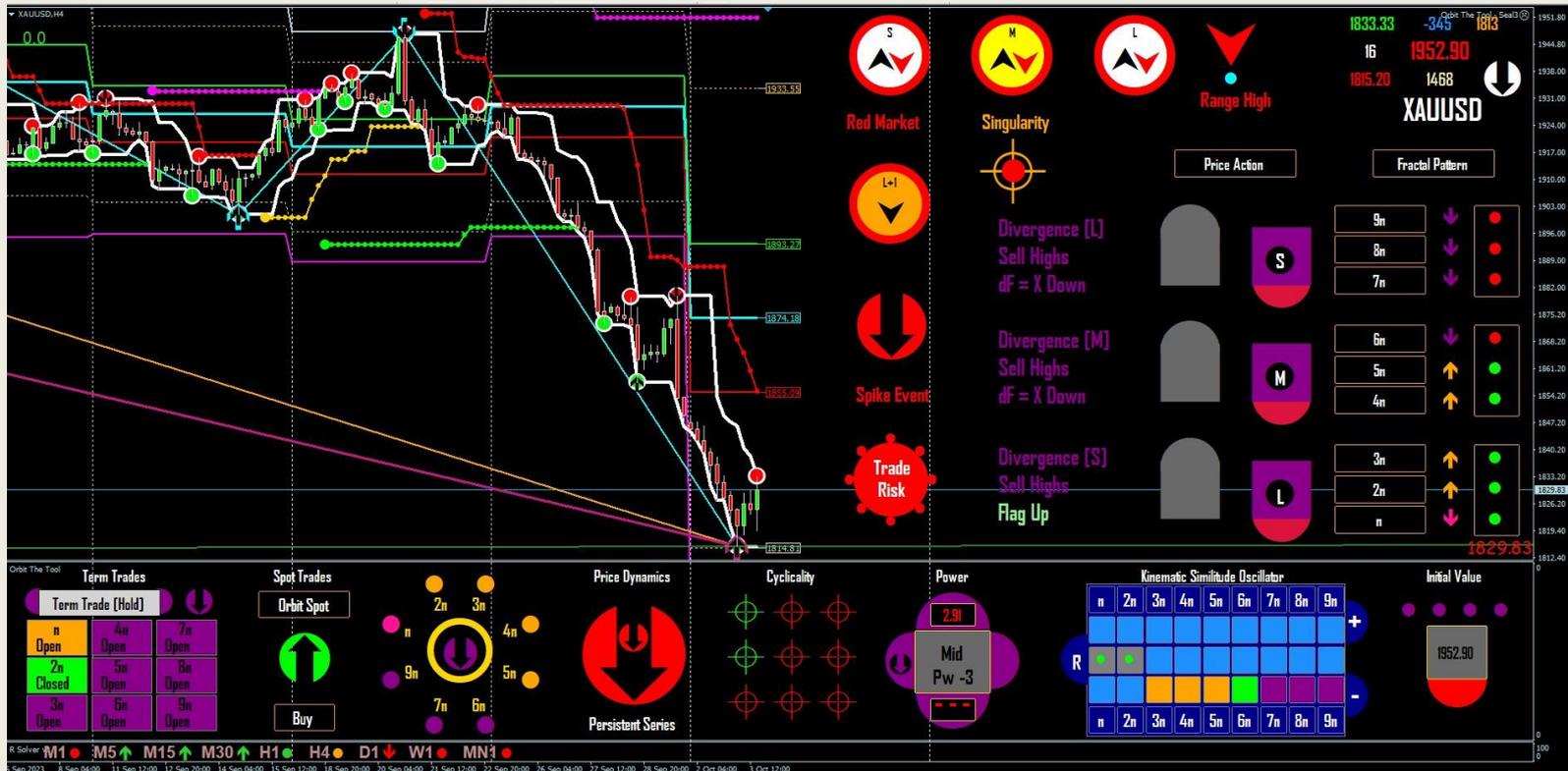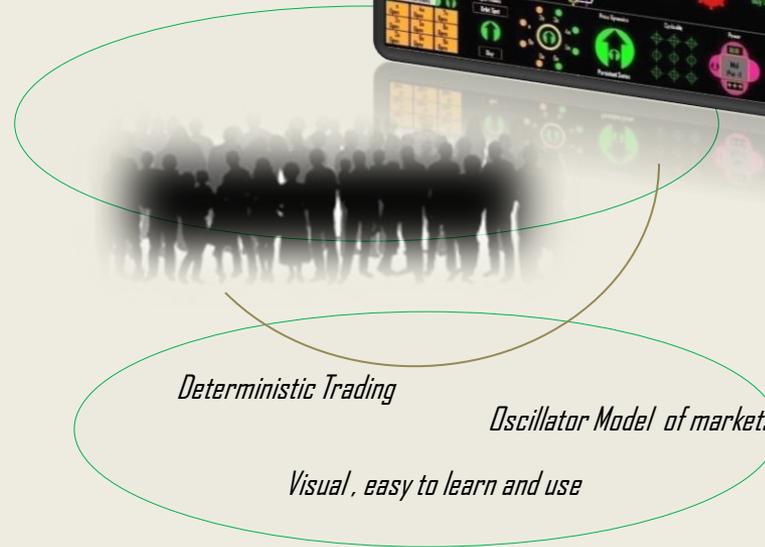
1. Again kindly look at the structure of our readymade trade in the first screenshot. It is by our measure of fact fractured into three **paths** (zigzags), the dynamic is **fractal** by this fact and by even other measures still, we can show fractures to infinity. This is why the mathematics suggests the use of **context** rather than "signals."

2. Orbit employs no "signal" and offers only **trade contexts** which the trader can judge by the logic and decide whether a trade is **true** or **false** at a particular point in time.

3. "Signals" do not provide control. To win consistently you must have control = **know** where you are and why, know for **certain** what is going to happen next to justify a **trigger** as **true** or **false** point to point. This choice is always clear by Orbit for when to take trades if in fact available and feasible. That is when the risk of trade is 0 to you. Orbit trading is visual if you do not see the choice presented for a trade do not trade.

Orbit Trading MUST Reads

$$X_{n+1} = F(X_n)$$

Orbit the Tool

The Crow (-_-)

Deterministic Trading

Oscillator Model of markets

Visual , easy to learn and use

"When you know it, becomes a game in risk-free space."

The Strange Attractor

⊕ = TT_0

b) Command 1

a)

Range Low

Risk-Free Space →

Y

X

Path →   Stop = 0

Inverse On

Spot Trades
Orbit Spot
Buy
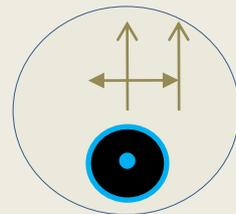
Single Trigger or Command 2

Inflector

Please Note the inverse is true.

1. Price is Nonmonotonic (moves up and down going up or down), and in a single direction at any one time.
2. In Orbit, when price is in an **Uprising** the indication is given by **a)** Range Arrow Pointing + **b) Command 1 (Cy = TTo)**.
3. As long as this indication holds, **Risk-Free Space** is the same as the ambient space about the diagonal projected from X (Initial Value), to Y (Termini or Return Point).
4. In an Uprising, **Counter – Cycle** moves are indicated by Orbit **Spot Arrow** i.e., every time the Spot Arrow **disagrees** with the **Range Arrow.** Counter cycle moves are NOT Risk-Free.
5. The given structure may define one or more "Saddle" substructures over its life cycle which are commonly called pullbacks in trading. When price is not in a flow (Stretching) it is in Finite Loop Equilibrium (FLE or Folding space). In mathematics, this alternation between Stretching and Repeated Folding is called **Chaos**.
6. Ahead of a pullback event, Orbit will indicate the upcoming change in market condition by **Command 0.** Note that now the Single Trigger (Orbit Spot) is the same as **Command 2. Command 0** is treated separately.
7. The overall structure upon which price fluctuates is called the **Strange Attractor.**

The Strange Attractor (Examples)
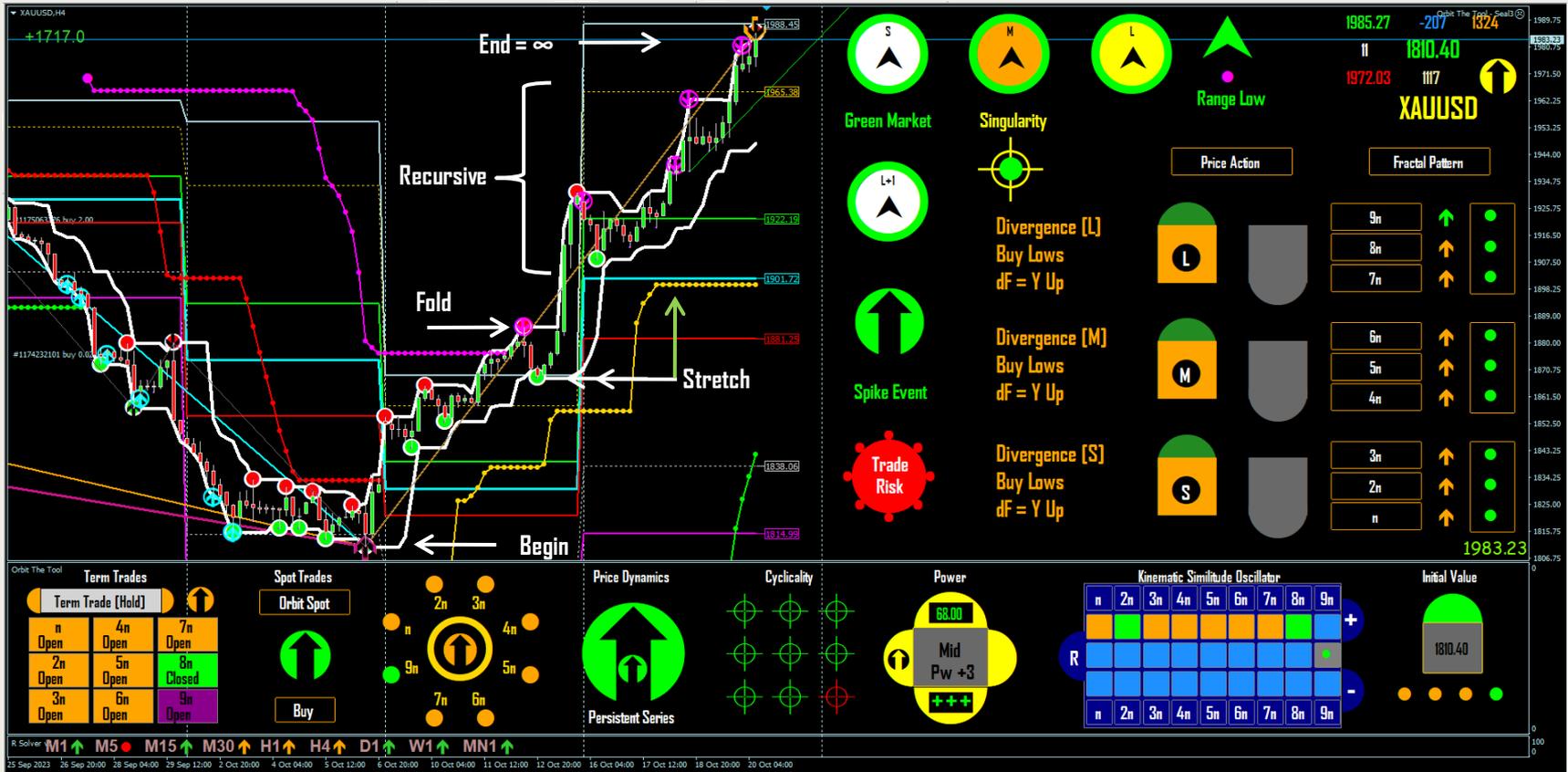
The Strange Attractor (**up** example and to its left a completed **down** example with the same properties). The key is the direction of the **diagonal** which = Command 1. End = ∞ implies a new and opposite command 1. Recursive means it repeats its behaviour in direction for the **duration** of the given command 1. Every time measure has its own attractor; the mother attractor is 9n and all attractors nested within converge on it and are therefore the same.

A dynamical structure that has a **begin** and an **end** defined by a single **diagonal** in one **direction** at a time. It is the path or orbit of the price point (Chaos READS price as a single point BOUNCED ABOUT SOME BOUNDED SPACE or **attractor**).

The **MRI** is the attractor "measure space" in **pips** and helps to visualize location of price and chaotic behaviour, i.e. repeated folding and stretching across time over scales.
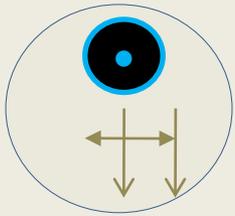
The Command 0

Cyclicality

Cyclicality

Y

CMD = 1

CMD = 0

Path → 0

x5n

$\oplus$ = π_c

5n
Closed

Inflector

Please Note the inverse is true.

The Command O

1. The Command O is a substructure of the Command 1. This means it is nested (embedded), within a primary command structure (similar in the same sense as the Command 2 which is subjugate to 1; but across different topologies).
2. The Command O is given by **Sn Cy = TTc -----> o ()**
3. It **signs** into play just as price begins to fluctuate in FLE (exactly as price begins a pullback counter cycle).
4. It is a frequent command because it is *chaotic* (occurring at pullbacks, and entry regions of the attractor)
5. The FLE is folding space with a bijective definition that is the same as saying it is anti-persistent space.
6. Movement therefore remains point to point but within a non evolving image or range (the FLE). This behaviour by definition reflects **intermittency** and is associated with space in **Initial Conditions,** i.e. space subject to the so-called "butterfly effect" or simply **chaos**.
7. **The Command O** helps us to trade or negotiate the FLE by changing signs for up and down moves in structure.
8. We also follow changes within that command structure to exit FLE into a **Reversal** or **Continuation** flow.
9. Chaotic Space is inherently unstable and therefore risky if **improperly** and **uncertainly** notified of entry into such a dynamical structure.
10. In summary command O notifies, guides us within the FLE and leads us out of the FLE which is a structure of variable duration and form. Critical however because it is especially disruptive of income flow across time for the uninitiated.
11. There are different kinds of FLE's for instance Event FLE's within which we have cyclonic FLE's, Fluctuant FLE's (first move head fake, second move trend side), etc Command O leads in and out all finite loop equilibriums.

Changes in Market Conditions

Y

Inflector

Path → **O**

CMD 1

CMD 1

B)
Pullback

$\oplus$ = TT_c

C)
Reversal

$\oplus$ = TT_o

A)
$\oplus$ = TT_o

Range High

X

Flip Factor On

Y

X → Low

Z^2
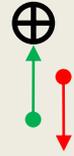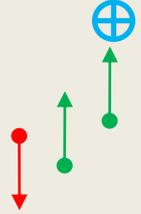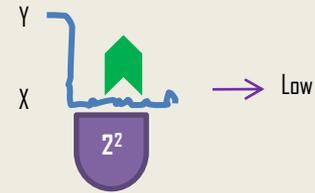
On KSO Amplitude Low K_a

X

$\oplus$

Inverse On

Changes in Market Conditions

CMD 1

Y

X

0

Path

CMD 1

Inflector
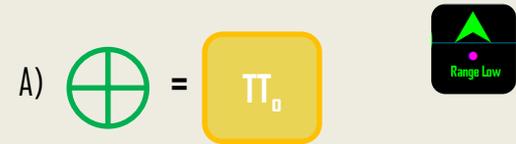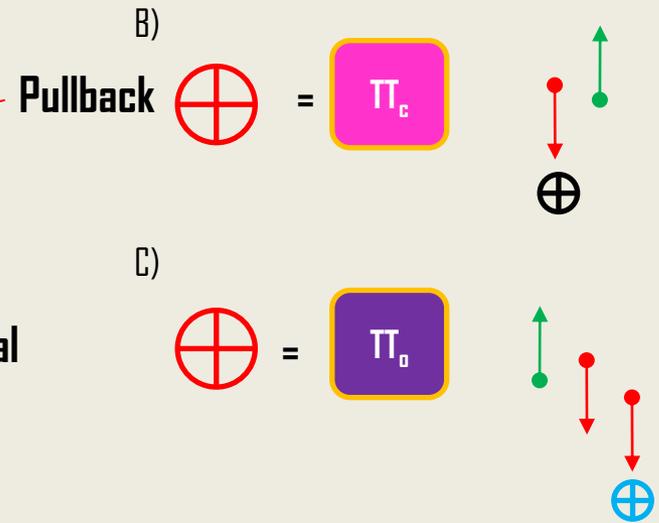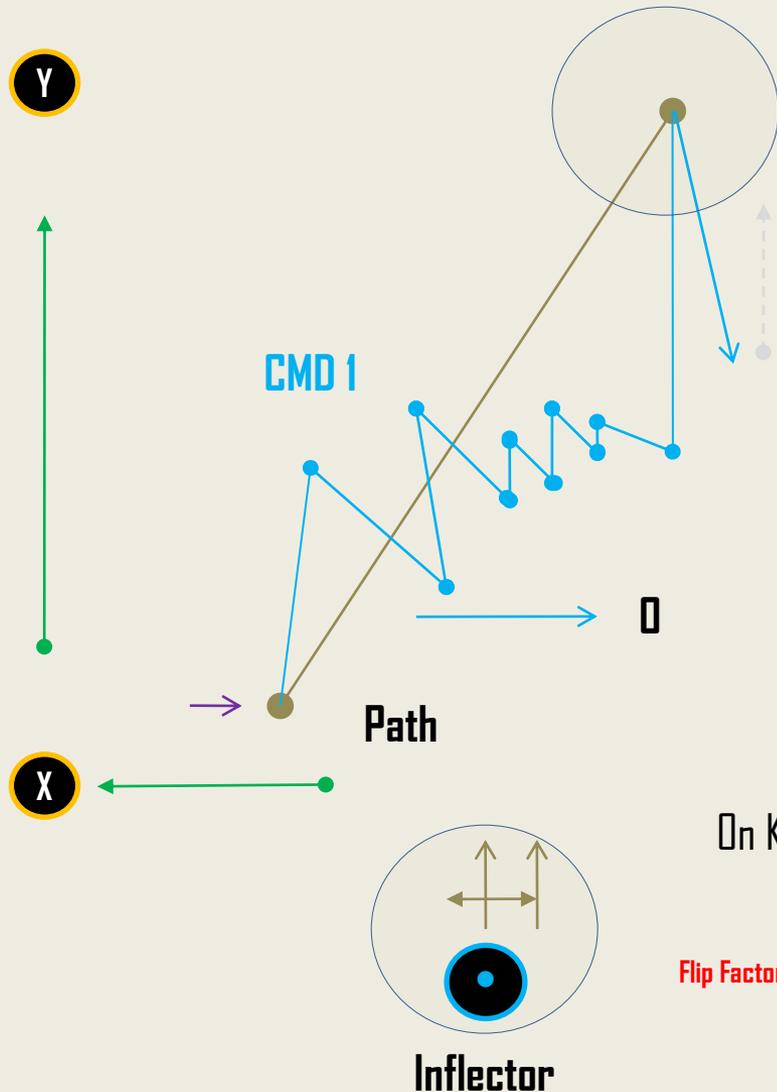
Flip Factor On

Y

Inverse On

B)

Pullback $\oplus$ = π_c

C)

Reversal

$\oplus$ = π_o

A) $\oplus$ = π_o

Range Low

Y   High

X

On KSO Amplitude High

2^2

K_a

Nested Commands (Interpretation dependent on mother CMD 1)

The Command 0 is an Intermittent (chaotic) Command

Inflector

Y → **Path** → 0

FLE or "Saddle"

CMD 0

x5n

$\bigoplus = \pi_c$

$\bigoplus = \pi_0$

CMD 1

X
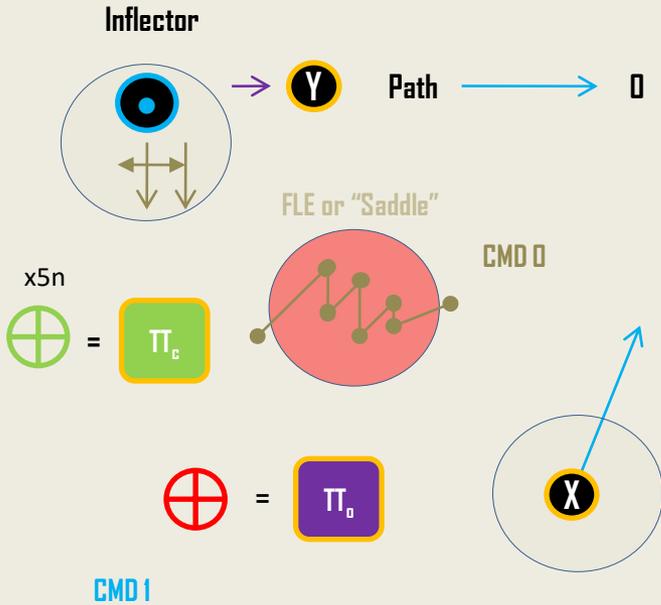
Inverse is true

In CMD 1

Independent Command

Range High

Range Low
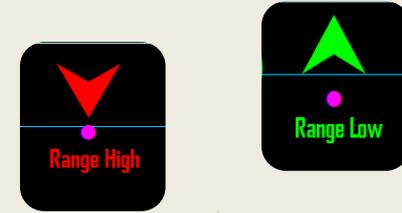
The **Single** Trigger Command

Dependent Command

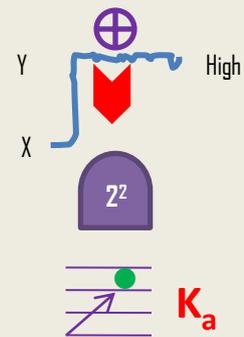| Spot Trades | Spot Trades | Spot Trades | Spot Trades |
| Orbit Spot | Orbit Spot | Orbit Spot | Orbit Spot |
| Buy | Sell | Sell | Buy |

The Command 2

The Command **nSign** is an early and **signature** sign of change in conditions

Inductive and Context Read Command

Spot Trades / Orbit Spot / Buy

xn

$\bigoplus = \pi_c$

n Closed

Maxout Value 5n Pi

Spot Trades / Orbit Spot / Buy

xn

$\bigoplus = \pi_0$

n Open

Maxout Value Scale or ∞

Spot Trades / Orbit Spot / Sell

xn

$\bigoplus = \pi_c$

n Closed

Maxout Value 5n Pi

Spot Trades / Orbit Spot / Sell

xn

$\bigoplus = \pi_c$

n Open

Maxout Value Scale or ∞

KSO Kinematic Feed (n ---> 9n) and Cyclic Action

Recursive amplitudes

+

R

Fetch

orders

Basin of attraction

Return

+

−

n   2n   3n   4n   5n   6n   7n   8n   9n

B)

+

A)

R

Return

Basin of attraction

orders

Fetch

C)

−

()
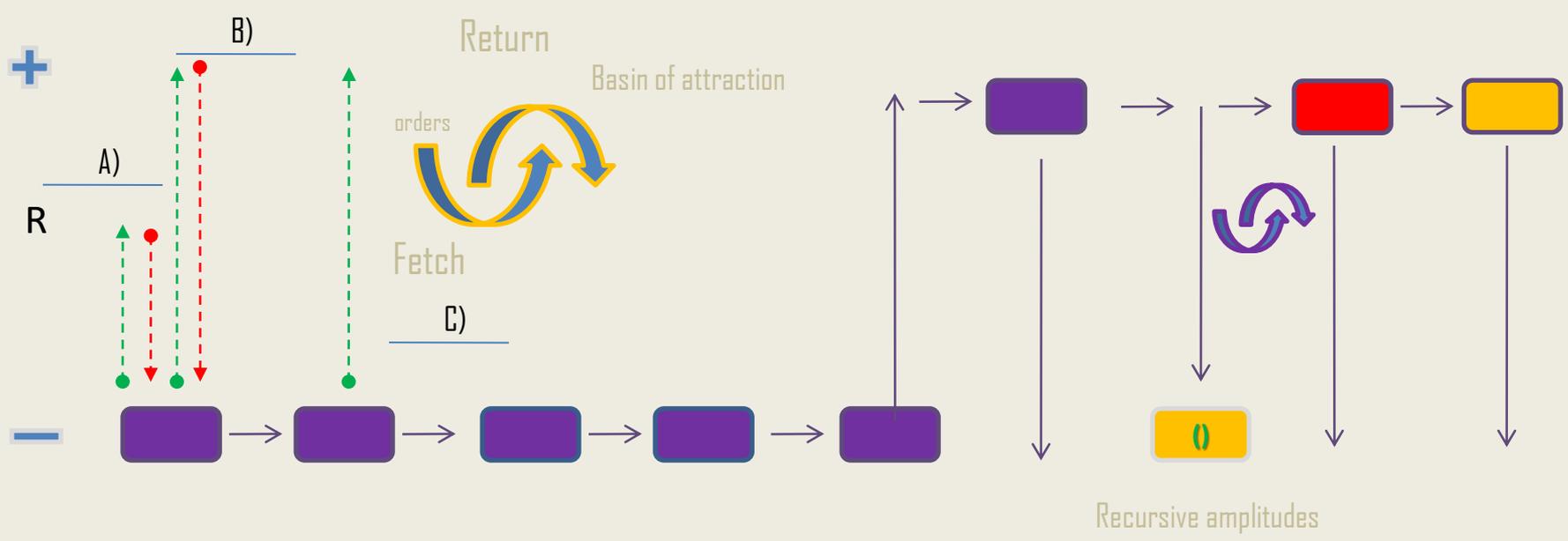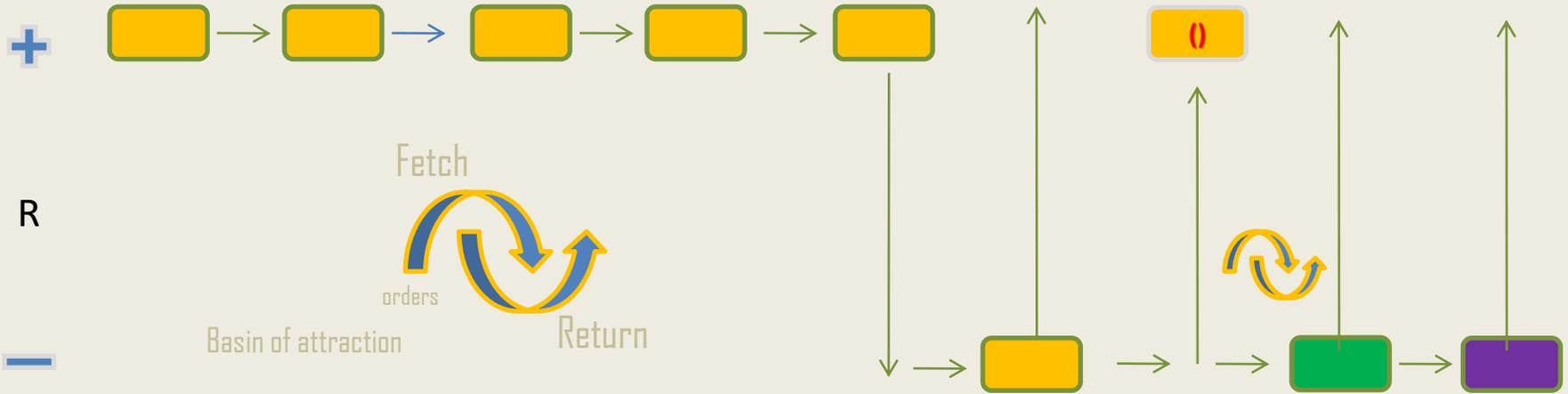
Recursive amplitudes

Cycle action { A) B) and C) }

n confirms direction at root as priming or **primed** = A)   **2n** cycles to **feed direction** covering in-phase pullbacks and mean reversions of the intraday cycle as long as {3n ----->^6n (is mapping)} to direction = B),   **n** and **2n** initiate **end behaviours** = C).

KSO action

Recursive Amplitudes per command I to reach peaks/troughs {7n **(Crown)**]. Extensions = persistence in Direction (Exponential Divergence).

Very Important PART of **Orbit SCREENFACE**; visual stimuli ----------> *interpretable*. The KSO level = **R** is strategic (middle behaviours), and reads the staging of attacks on **highs** and **lows** and also serves as limit in certain pullbacks.

Line discounting in the space (3n -----> 9n), may show opposite colours at extremes without changing levels which count as **in-line** pullbacks sufficient to *recycle* in direction.

Inverse On ------>

6n	⬆	🟢
5n	⬇	🟢
4n	⬇	🟢
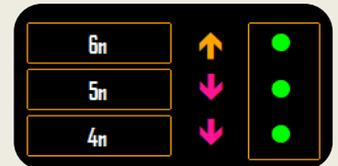
In FLE and **ALL** action, only a change in (6n FP) confirms sustained flow ID within a structure.

Mathematical Ambiance

The character and "atmosphere" of **Space** on the attractor at trade action.

Orbit Trade

6n	↑	🟢
5n	↑	🟢
4n	↑	🟢
3n	↑	🟢
2n	↑	🟢
n	↑	🟢

A)

Synchrony

Inverse is true

Pullback

5n **Inverse On** ------>

<------ **Inverse On**

6n	↑	🟢
5n	↓	🔴
4n	↓	🔴
3n	↓	🔴
2n	↓	🔴
n	↓	🔴

B)
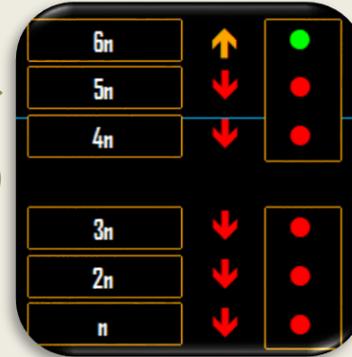
Edge

Recovery

<---- **Inverse On** ---->

6n	↑	🟢
5n	↑	🟢
4n	↑	🟢
3n	↓	🟢
2n	↑	🟢
n	↓	🟢

Asynchronous

6n	↑	🟢
5n	↑	🔴
4n	↑	🔴
3n	↑	🔴
2n	↑	🟢
n	↑	🔴

C)
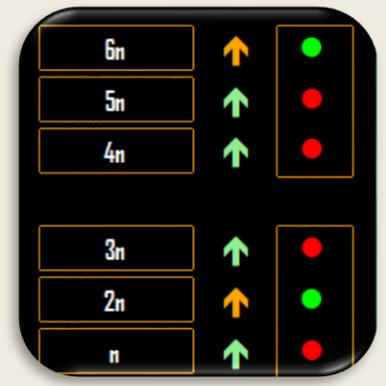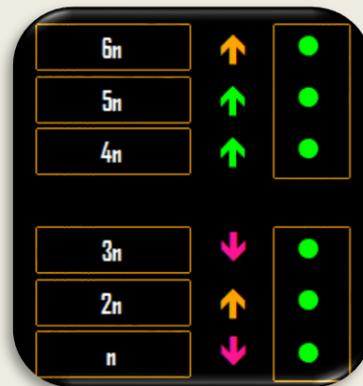
Mathematical Ambiance actions/properties.

In Orbit trading **Mathematical Ambiance** is as defined above. The chaotist considers the condition in mathematized space according to its character at the point of entry/exit, to judge i) the certainty of follow through ii) potential range of travel in pips based on Maxout Parameters and iii) potential counter action(s) ahead. The standard for Orbit trades is A), B) and C) reflect conditions in space other than those strictly consistent with the **command 1**: and where due to variable speeds of translation, range and duration of fluctuants, significance of intermittency and the specific topologies involved, etc there is some degradation in tradability (which is not to say "indications" are any less consistent or dependable, but to indicate that the potential for **trader error** is increased under those conditions but not to the point of tra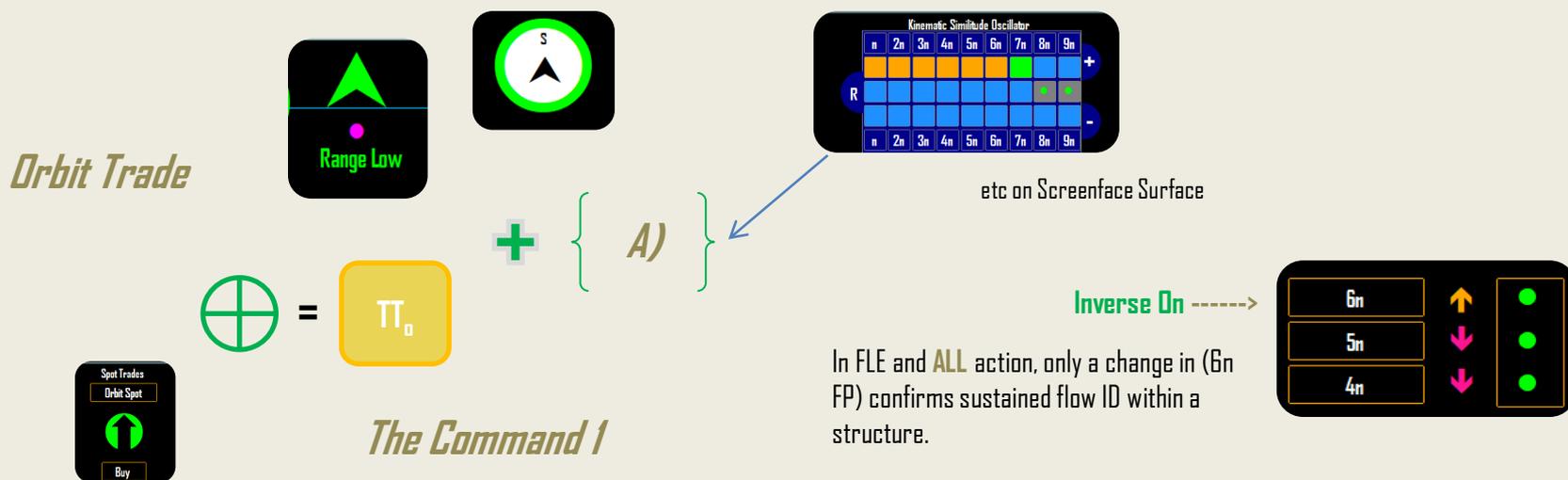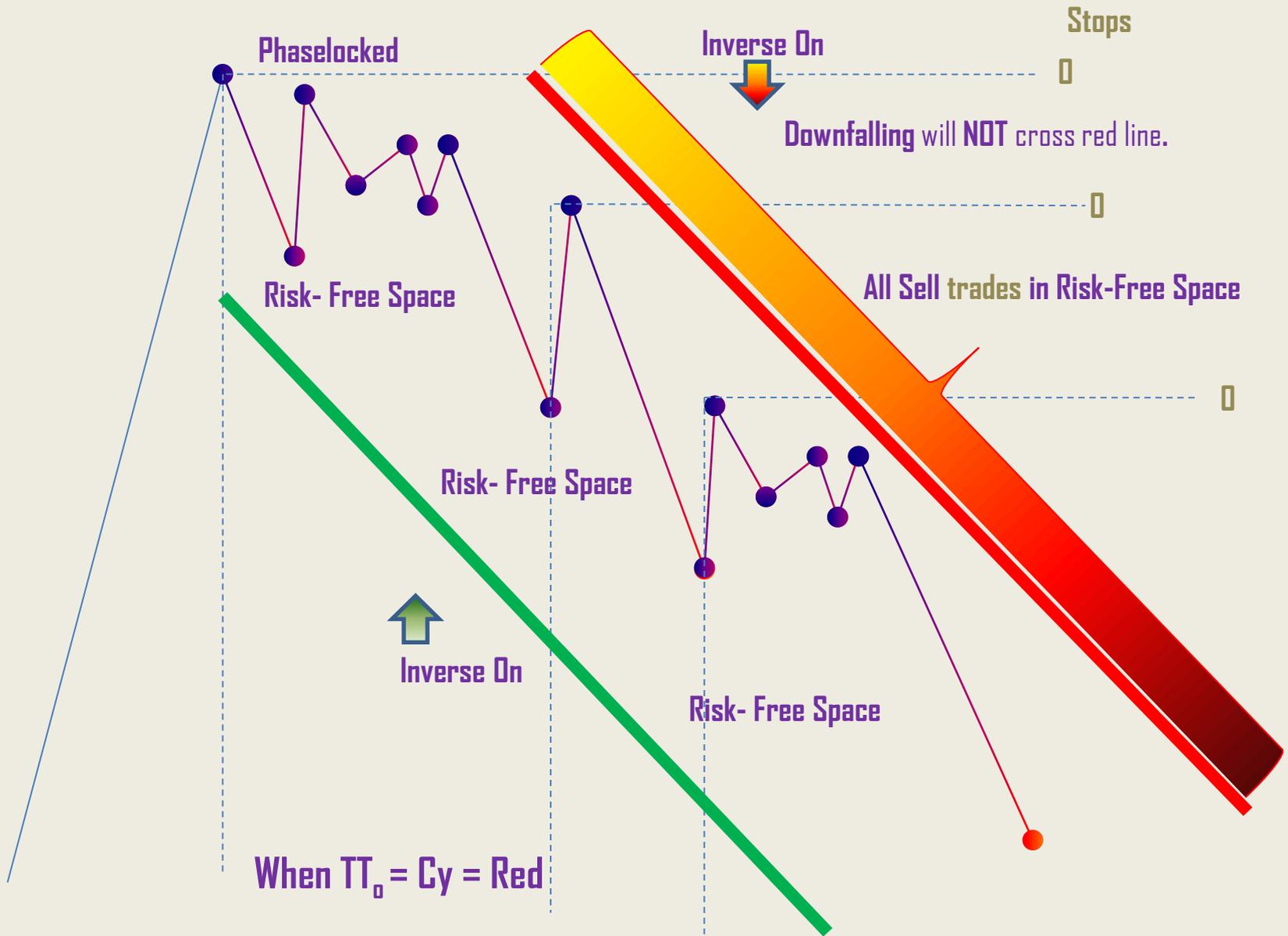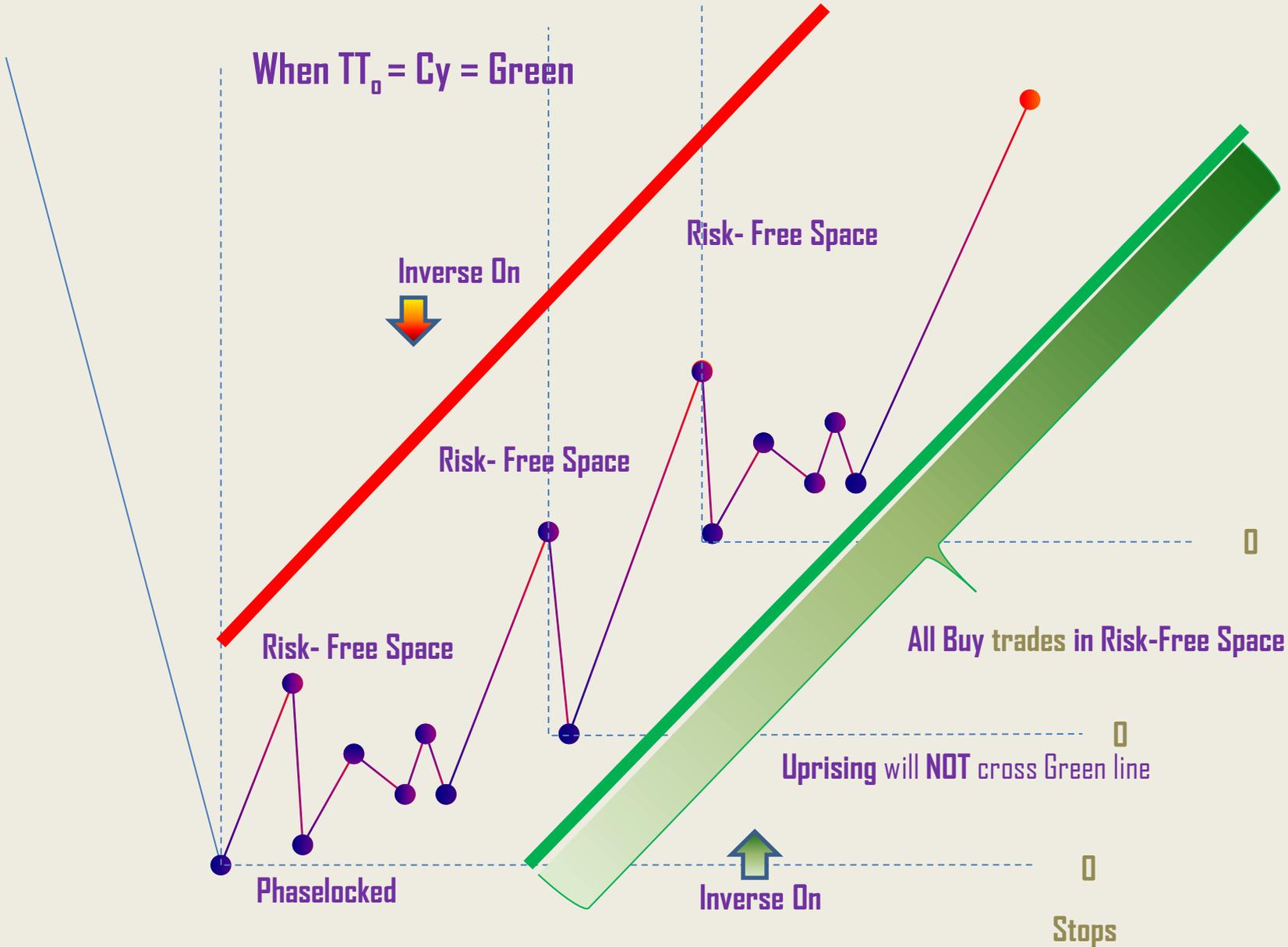de avoidance, not at all). In such conditions the pointing of the **Ordinal S** is complementary to taking trades while noting the status of the **Command 0** and the **Range Arrow**. While we use the Fractal Pattern Icon in this manual to instruct the idea, traders will experience the categories specified as a general trait of the **Screenface** Surface. The chaotist employs his mind always in trade space (uses his mind in judgement of **contexts**), for instance it is commonsense that you cannot expect a so-called "trend" in a move with a double arrow Ordinal On and more likely should lookout for a 5n Pi Maxout, etc.

Orbit Trade

Range Low

etc on Screenface Surface

Inverse On ------>

In FLE and **ALL** action, only a change in (6n FP) confirms sustained flow ID within a structure.

$\oplus$ = π_o **+** { A) }

Spot Trades
Orbit Spot
Buy

The Command 1

The Idea of Risk- Free Space

Phaselocked

Inverse On

Stops

0

Downfalling will **NOT** cross red line.

Risk- Free Space

0

All Sell trades in Risk-Free Space

Risk- Free Space

0

Inverse On

Risk- Free Space

When $TT_0 = Cy = Red$

When TT_0 = Cy = Green

Inverse On

Risk- Free Space

Risk- Free Space

Risk- Free Space

All Buy trades in Risk-Free Space

Uprising will NOT cross Green line

Phaselocked

Inverse On

Stops

The Idea of Risk- Free Space

Return Points

Higher High

Far Space

Inverse ON

Far Space

Closed

Mathematical Ambiance

Range Low

Near Space

nSign

Far Space **Open**

M

G

Near Space **Open**

Near Space

Is Command 0 on or off?

Near Space

Initial Value 2

Initial Value 1

Initial Value 3

A

Kinematic Similitude Oscillator

	n	2n	3n	4n	5n	6n	7n	8n	9n	
										+
R										
	n	2n	3n	4n	5n	6n	7n	8n	9n	-

Spot Trades
Orbit Spot
Buy

$nCy = TTc\bullet$

Far Space

Trading

$\oplus$ = TT_0

1. Scoping:

    It can be casual and and best kept simple. In chaos and in fractal geometry we are concerned mainly about the behaviour of the variable and we look for **persistent behaviour** since if price is not persisting in **direction** it is **folding** in FLE. So what is the consumption of the MRI spaces in sequence? E.G. Is it like Gold recently consuming H4, then D1 then now WK in that order? So how is it look to you, a top or what? Then look at the KSO how is it look for your immediate theory? Then you keep impressions in mind without making **any conclusions** but keeping a sense.

    Next check **command 1,** is it **Red** or **Green** and so you know a risk free trade (trend side) and a risky trade by colour and decide your strategy (trade any and all, or be selective one way or another or some combination of the two all depends on the trader and how he feels at any point).

2. **Follow,** a check of where on the **strange attractor** is the action setting up, what is the range of gain possible? so what so you want? Joining a trend to hold? Or just want to scalp? Day trade the range?

    What is the ambience you read. But even with these in mind you MUST still trade a **mechanical Orbit algorithm.**

3. Go to **trade control** visually match points across **Control** and **Screenface** and track action.

    On **Single Trigger The Command 2,** ENTER trade.

1. Trading:

   Because it is dynamics you can see with your eyes in practice scoping, trading, and reading blend depending on style and depth of understanding of the logic you are trading = you know why it is working as it should and therefore following the action rationally and step by step.

   Given mathematical ambience and location on attractor and in **a point to point setup** you can remain confident, but remember to target and manage the run for its **Maxout** value always.

2. Dynamical also means you follow an understanding or interpretation of **flow** that always agrees with a **pattern** you already **know** and can see **everyday** in **trade control.** If wrong by error quickly recheck and correct trade immediately. Losses in risky space (incorrect direction for command 1) are recovered at exponential speeds and for farther range in **risk – free space** (correct direction for command 1).

3. It will not take the user long to see that Orbit trades are **best practice** but with time also the user may learn "tricks" and "things" of his own about the space and vary his trading more to his style, timing etc with the same Orbit accuracy.

The Vision

Orbit the Tool

FV
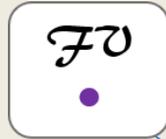
Cloud Computing

Market Participants

Cloud Distributed and managed

Deterministic Trading

Oscillator Model of markets

Visual , easy to learn and use

...reach the cloud.

Contact Me:

Samm

+234 0902297 4332

sikwue@hotmail.com

www.linkedin.com/in /samm-ikwue-774683a1

live:sikwue

1. https://youtu.be/ZMeSqggzRcQ

2. Please visit the video link which visually presents our application of **chaos** mathematics in gaining our solution.

3. https://www.complexity-explorables.org/flongs/

4. Please visit and review the **Logistic Map** which is the same equation *form* as the **"analogue"** equation on which our application is based.

5. Letters: HDM, PGD, MBA