

hw

FORMULAS

These formulas explore a foam topology: they are all related to spatial variables. Their application to diverse situations could allow the propulsion into new spaces.

This set of formulas is underpinned and crossed by three types of relations: the first one (denominated the Schwarzschild constant) expresses the relationship of a relation to movement in hyperspace, the second one is relative to a possible collaboration artist-cosmonaut, or cosmonaut-cosmonaut (through which each entity would be overflowed), the third one points at the possibility of both the exploration and the generation of multiverses.

Schwarzschild Constant :

$$\dot{C} = \check{K} \int / \langle \text{hu}_v \rangle \acute{e}_L$$

where \dot{C} expresses the Schwarzschild constant, which is equivalent to the ratio between the mobility regime \check{K} of the subject-superjet \int and hyperspace hu and its virtualities v reduced to local scale \acute{e}_L . The mobility regime designates here the multiplicity of the modes of action or appearance of the subject-superjet (entity that expresses an extended subject or object, or a phenomenon extended to its object or subject) traveling within various distances, projected in space according to different varying modes and degrees of reality.

Cosmonaut's overflowing :

In the case of the development of a common universe of fiction (from the planet to space), the cosmonauts (engaged on a mission, a flight, a travel - disseminated in various points of spacetime) would be projected in a space that would overflow the scope of their own mission, displacement, movement, context, situation. This overflow, amplified by the possible cosmonaut-cosmonaut exchanges, could then generate phase loops. This access to a foam topology through a common object could be expressed as follows:

$$U = \Omega c_2 \cdot \mathcal{E} \sim$$

where U designates the universe of fiction, produced by the multiplicity Ω of the exchanges between the cosmonauts projected in another space (c_2) by the fluctuations of the foam $\mathcal{E} \sim$.

Projection of the cosmonaut:


The product of the universe of fiction by the Schwarzschild constant of a cosmonaut would project

it in a multiverse of possibilities, expressed as follows:

$$\mathcal{S}(\infty Z_c)$$

where \mathcal{S} expresses a multiverse of possibilities in which is plunged the relation of the

cosmonaut to her/his own spatio-temporal distribution (∞Z_c)

These formulas  are numbered and refer to the text '*extrasolar nebulization*'.



$$\infty Z \blacklozenge > \left(\langle\langle \rangle\rangle \text{objects}_{(o.qo.ho)} . \langle\langle \rangle\rangle \text{energy levels} \right) \infty \infty \infty \infty \infty \infty$$

The dissemination phenomena ∞Z related to the hole media \blacklozenge imply the product of form transitions between objects

quasi-objects hyperobjects (o.qo.ho) $\langle\langle \rangle\rangle$ objects (o.qo.ho) by their energy level transitions $\langle\langle \rangle\rangle$ energy

levels through polychronic temporalities $\infty \infty \infty \infty \infty \infty$



$$\infty Z \blacklozenge : \int U' / \sim \gamma$$

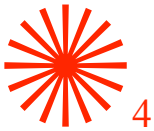
The dissemination phenomena ∞Z related to the hole media \blacklozenge correspond to the product of the subjects-superjects \int

by the universe of fiction U' on the fluctuations of Medusa hypothesis $\sim \gamma$



$$\omega \acute{e} : \sim \xi(o.c^{\infty}Z)_{\langle\langle\rangle\rangle} \acute{e}$$

A foam topology $\omega \acute{e}$ corresponds to the movements of the fluctuations \sim of the crossing of the scales $\langle\langle\rangle\rangle \acute{e}$ by the objects O and by the cosmonauts C projected $^{\infty}Z$ in the multiverse ξ



$$\xi(c^{\infty}Z) : (C_{\odot} / C!) \acute{h}$$

The projection of the cosmonauts in a multiverse of possibilities $\xi(c^{\infty}Z)$ corresponds to the product of a nebulization dynamics \acute{h} by the ratio between the planetary condition C_{\odot} and the galactic condition $C!$



$\xi(\mathbf{c}^\infty\mathbf{z}) : \wp . \mathbf{C}_{\text{loops}}$

The projection of the cosmonauts in a multiverse of possibilities $\xi(\mathbf{c}^\infty\mathbf{z})$ corresponds to a dynamics of decorrelation

\wp within a field of loops $\mathbf{C}_{\text{loops}}$



$\langle \ast \rangle : \xi(\mathbf{c}^\infty\mathbf{z}).\mathbf{f}\text{-loops}$

Speculative realism represents a conceptual telescope $\langle \ast \rangle$ that corresponds to the product of the projection of the

cosmonauts in a multiverse of possibilities $\xi(\mathbf{c}^\infty\mathbf{z})$ by future loops **f-loops**



$$D : \% (\overset{\smile}{\mathring{a}}_{ho} / \acute{e}L)$$

The encounter dimension D corresponds to the produce of the emergence of the abyss within hyperobjects $\overset{\smile}{\mathring{a}}_{ho}$ reduced to local scale $\acute{e}L$ by the distance $\%$



$$\mathcal{Z} . D / \mathring{a}_{s\acute{h}}$$

The product of the strange stranger \mathcal{Z} by the encounter dimension D represents the mirror of the product of the abyss of a cosmos surface \mathring{S} by a nebulization dynamics \acute{h}



$\xi(c^\infty z)\dot{\eta} \langle \rangle V.f\text{-loops}$

The nebulization dynamics $\dot{\eta}$ of the cosmonauts in a multiverse of possibilities $\xi(c^\infty z)$ is open to the collapse V of

future loops $f\text{-loops}$



$\smile \Theta \text{ dark ecology} \langle \rangle \dot{C} . (\smile s\text{-loops})$

The emergence \smile of strangeness Θ through dark ecology depends on the product of the emergence \smile of strange

loops $s\text{-loops}$ by the Schwarzschild constant \dot{C}



$$\acute{\epsilon} \langle \rangle \text{loops}_{\text{ho}} / \text{h}$$

Foam $\acute{\epsilon}$ is the result of the ratio between loops within hyperobjects loops_{ho} and hyperspace h



$$\text{U}' \langle \rangle + \text{X}_{\alpha} / \text{c}$$

The universe of fiction U' corresponds to the surplus of reality $+$ produced by an extrasolar exform X_{α} that crosses the

cosmonauts C



$U > \text{shifters}_{\phi} : \sim \mathring{a}_{ho}$

The universe of fiction U engages shifts through operations of decorrelation shifters_{ϕ} that generate fluctuations of
the abyss within hyperobjects $\sim \mathring{a}_{ho}$



$\langle \text{✱} \rangle / \dot{W}_{hu} / \S(\mathring{c}^{\infty}z).\text{loops}_{\phi}$

The scintillator mind $\langle \text{✱} \rangle$ is a fugitive object in hyperspace \dot{W}_{hu} mirror of the product of the phase shift
of loops loops_{ϕ} in the multiverse $\S(\mathring{c}^{\infty}z)$



$\langle \ast \rangle \langle \rangle k \grave{a} V \text{.loops}$

The evaporation of dark objects $\langle \ast \rangle$ corresponds to the product of the kaleidoscopic regime of the abyss $k \grave{a}$

by the meteorologization V of loops loops



$h u \ 0 \rangle k_{\infty Z} \langle \ast \rangle / f\text{-loop}$

The existence of archifossiles 0 in hyperspace $h u$ depends on the ratio between the kaleidoscopic regime k of the

spatio-temporal distribution ∞Z of the observers $\langle \ast \rangle$ and future loops $f\text{-loop}$



$\mathbf{h} \ast / \mathbf{f}$ -loops

Dark experiences \ast in hyperspace \mathbf{h} represent mirrors for the future loops of space travel \mathbf{f} -loops



$(C_{\odot} / C_{!}) \acute{\eta} / \ddot{R}_{3c}$

The nebulization $\acute{\eta}$ of the ratio between the planetary condition and the galactic condition $(C_{\odot} / C_{!})$ is relative to

the regeneration \ddot{R} of the ecosystems $3c$



$$\ddot{R}_{3c} \langle\langle\rangle\rangle U / (\ddot{R}M_f)$$

The regeneration \ddot{R} of the ecosystems $3c$

crosses is crossed by the universe of fiction U which is co-dependent to

the regeneration of the memory of the subjects-superjects $\ddot{R}M_f$



$$\star \langle \rangle \langle \dot{C} \xi(c^\infty z) \rangle / \langle \gamma$$

The dark object represented by future space flights \star corresponds to the ratio of the Schwarzschild constant \dot{C} of

the cosmonauts projected in the multiverse $\xi(c^\infty z)$ by Medusa's γ dark image \langle



$$\langle \gamma \rangle_{\text{loops}} \langle \rangle \sim \mathbf{nh}_0 \langle \rangle \acute{\epsilon}_{\Delta}$$

The evaporation of the loops of the Medusa hypothesis $\langle \gamma \rangle_{\text{loops}}$ interferes with the fluctuations of the hyperobjects

$\sim \mathbf{nh}_0$ tending towards the formation of a climatic foam $\acute{\epsilon}_{\Delta}$



$$\acute{\epsilon} \langle \rangle \dot{C} (\text{rhizomes} \cdot L_U) \text{ " / } \mathbf{h}$$

The foam of an experience $\acute{\epsilon}$ corresponds to the application of the Schwarzschild constant \dot{C} of a space flight " to

the product of the world lines L_U generated by the rhizomes **rhizomes** implied in relation to hyperspace \mathbf{h}



$$U' \varepsilon \langle \rangle \gamma \blacktriangledown$$

The foam generated by the universe of fiction $U' \varepsilon$ is co-dependent to the projection of crystal images \blacktriangledown through

Medusa hypothesis γ



$$\mathcal{D} \sim \text{sunburst}_{LU}$$

The fluctuations \sim of the dark image \mathcal{D} affect the world lines LU around dark objects 



$$\dot{C}'' \sim \mathcal{D} \cdot \gamma > \infty \infty \infty \infty \infty \infty$$

The product of the Schwarzschild constant of a space flight \dot{C}'' by the fluctuations \sim of the dark image \mathcal{D} relative to

Medusa hypothesis γ implies a polychronic phase shift $\infty \infty \infty \infty \infty \infty$



$$\sim h_0 \langle \rangle \text{corail} * h_0 / h_u$$

The fluctuations \sim of a hyperobject h_0 correspond to the ratio between the coral of singularities of this hyperobject

$\text{corail} * h_0$ and hyperspace h_u



$\sim \mathcal{D} \langle \rangle (\mathring{k}\grave{a})V$ f-loops

The fluctuations \sim of the dark image \mathcal{D} are open to the product of the kaleidoscopic regime of the abyss $\mathring{k}\grave{a}$ by the meteorologization V of future loops f-loops



$\mathring{D}_{\text{masque}} : (\mathring{k}\grave{a})V$ f-loops . $\acute{\eta}\acute{\epsilon}$

The mask of the outdoors $\mathring{D}_{\text{masque}}$ corresponds to the product of the kaleidoscopic regime of the abyss $\mathring{k}\grave{a}$ by the meteorologization V of future loops f-loops by a foam of nebulizations $\acute{\eta}\acute{\epsilon}$



$$\acute{\eta} : h_o / \acute{e}_L : h_o / h_u$$

The nebulization dynamics $\acute{\eta}$ circulates in-between hyperobjects h_o reduced to local scale \acute{e}_L and hyperobjects

reduced to hyperspace h_u



$$(k_{\grave{a}}$$

$$\gamma / h_u)(k_{\grave{a}} V \text{ f-loops}) \langle \rangle \sim \infty \infty \infty \infty \infty \infty$$

The product of the ratio between the kaleidoscopic regime of the abyss $k_{\grave{a}}$ of Medusa hypothesis γ and hyperspace h_u

by the product of the kaleidoscopic regime of the abyss $k_{\grave{a}}$ generated by the meteorologization of future loops V f-loops induces an amplification \sim of polychronic phase shifts $\infty \infty \infty \infty \infty \infty$



$\mathcal{D} . : (k_{\text{a}})V \text{ f-loops} / \mathcal{Z}$

The dark image \mathcal{D} of the dispositif . corresponds to the ratio between the product of the kaleidoscopic regime of the abyss k_{a} by the meteorologization V of future loops f-loops and the ecosystem \mathcal{Z}



$\acute{\eta} \langle \rangle (\mathcal{K} \int / \text{h} \nu) \text{ loops}$

The nebulization dynamics $\acute{\eta}$ is relative to the product of the ratio between the regime of mobility \mathcal{K} of the subjectsuperject

\int and hyperspace and its virtualities $\text{h} \nu$ by loops loops



$$\mathbf{D}.\gamma : \dot{C} \xi(\mathbf{c}^{\infty Z}).\text{loops}_{\phi}$$

The dark image \mathbf{D} of Medusa hypothesis γ emerges from the product of the Schwarzschild constant \dot{C} of
cosmonauts projected in the multiverse $\xi(\mathbf{c}^{\infty Z})$ by a series of decorrelations loops_{ϕ}



$$\mathbf{O}_{\text{eco}} : \acute{\eta}.\dot{C}\langle\langle 3 \rangle\rangle$$

The ecosophical object \mathbf{O}_{eco} corresponds to the product of a nebulization dynamics $\acute{\eta}$ by the Schwarzschild constant
 \dot{C} of an ecosystem animated by its transitions $\langle\langle 3 \rangle\rangle$



hyper.ing : $O_{eco} \cdot h_o / h_u \langle \rangle nh_o$

The **hyper.ing** hyperobject corresponds to the ratio between the product of the characteristics of the hyperobject

h_o by those of an ecosophical object O_{ECO} and the entanglements of hyperobjects and hyperspace $h_u \langle \rangle$

nh_o



$P'' \langle \rangle$ f-loops . $(\dot{C}'' - \acute{e}_L)$

The plasma of a space flight P'' corresponds to the product of future loops **f-loops** by its Schwarzschild constant

freed from local scale $(\dot{C}'' - \acute{e}_L)$



$$\alpha P \langle \rangle \ddot{R} / k_{\text{a}} V \text{ f-loops}$$

The extrasolar plasma αP corresponds to the reflection ratio between the regeneration \ddot{R} and the product of the kaleidoscopic regime k_{a} of the abyss by the meteorologization V of future loops **f-loops**



$$j : \omega_{\text{e}} / k_{\text{a}} h$$

Immersion j corresponds to the ratio between a foam topology ω_{e} applied to space flight and the product of the kaleidoscopic regime of the abyss k_{a} by hyperspace h



$$i : \sim \xi(c^\infty Z) / k \grave{a} h u$$

Immersion i corresponds to the ratio between the fluctuations \sim generated by the cosmonauts projected in a multiverse $\xi(C^\infty Z)$ and the product of the kaleidoscopic regime of the abyss $k \grave{a}$ by hyperspace $h u$



$$\langle \mathfrak{h} \rangle : \acute{\eta}_{\text{rift } \mathfrak{f}} / k \grave{a} V \text{ f-loops}$$

The outdoors $\langle \mathfrak{h} \rangle$ is conveyed by the ratio between a nebulization dynamics crossing the rifts of the subjectssuperjects

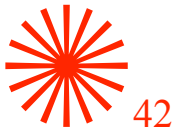
$\acute{\eta}_{\text{rift } \mathfrak{f}}$ and the product of the kaleidoscopic regime of the abyss $k \grave{a}$ by the meteorologization V of future loops f-loops



$\mathcal{D} \int \langle \rangle \infty \infty \infty \infty \infty \int . V \text{ f-loops}$

The dark image \mathcal{D} of the subject-superject \int is open to the phase shift $\infty \infty \infty \infty \infty$ of the product of the subjectsuperject

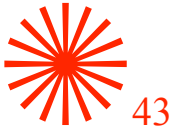
\int by the meteorologization V of future loops f-loops



$\sim k_{\text{a}} V \text{ f-loops} / h_{\text{u}} : \text{f-}\acute{\eta} :$

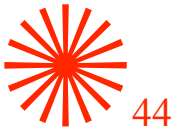
The ratio between the product of the fluctuations of the kaleidoscopic regime of the abyss $\sim k_{\text{a}}$ by the meteorologization

V of future loops f-loops and hyperspace h_{u} opens towards future modes of nebulizations f- $\acute{\eta}$



$$\langle \mathfrak{h} \rangle : \blacktriangle / \mathfrak{h}_v$$

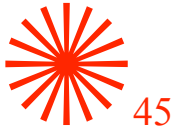
The outdoors $\langle \mathfrak{h} \rangle$ flows through the relation of the triangle of the future \blacktriangle to hyperspace and its virtualities \mathfrak{h}_v



$$\mathcal{Z} . \mathbf{D} \langle \rangle \acute{\eta}_{\text{rift } \mathfrak{f}} \langle \rangle \langle \mathfrak{h} \rangle \infty \infty \infty \infty \infty \infty$$

The product of the strange stranger \mathcal{Z} by the encounter dimension \mathbf{D} is co-dependent to the nebulization of the rift of

the subject-superject $\acute{\eta}_{\text{rift } \mathfrak{f}}$ co-dependent to the phase shift relations $\infty \infty \infty \infty \infty \infty$ of the outdoors $\langle \mathfrak{h} \rangle$



$$\gamma (\blacktriangle /h\upsilon \nu) \langle \rangle \mathbf{f}\text{-}\acute{\eta}$$

The product of Medusa hypothesis γ by the dive of the triangle of the future in hyperspace $\blacktriangle /h\upsilon \nu$ is open to future

nebulizations $\mathbf{f}\text{-}\acute{\eta}$



$$\blacklozenge \acute{\epsilon} \langle \rangle \dot{C} \gamma$$

The foam relative to the hole media $\blacklozenge \acute{\epsilon}$ flows through the Schwarzschild constant of Medusa hypothesis $\dot{C} \gamma$



$$\infty Z \acute{e} \langle \rangle (\blacklozenge / \mathfrak{h}) \text{ } \text{ } \alpha P$$

The spatio-temporal distribution ∞Z of foam \acute{e} corresponds to the product of the ratio of the time capsule plunged into hyperspace $\blacklozenge / \mathfrak{h}$ by the product of the extrasolar plasma αP by a transformational pragmatics $\text{ } \text{ } \alpha P$



$$C! : \acute{\eta} C_{\odot} : k_{\grave{a}} V \text{ f-loops} / \alpha P . \langle \mathfrak{h} \rangle$$

The galactic condition $C!$: nebulization $\acute{\eta}$ of the planetary condition C_{\odot} : product of the kaleidoscopic regime of the abyss $k_{\grave{a}}$ by the meteorologization V of future loops **f-loops** on the product of the extrasolar plasma αP by the outdoors $\langle \mathfrak{h} \rangle$



$\infty Z U' . \gamma \langle \rangle \blacklozenge_{\dot{\epsilon}} \langle \rangle \dot{C} U' \langle \rangle \alpha P . \langle \mathfrak{h} \rangle$

The spatio-temporal distribution of the universe of fiction $\infty Z U'$: Medusa γ : the foam generated by the hole media

$\blacklozenge_{\dot{\epsilon}}$: the Schwarzschild constant \dot{C} by the universe of fiction U' : the extrasolar plasma αP : the outdoors $\langle \mathfrak{h} \rangle$



$C! \langle \rangle \sim \Theta . \mathfrak{Z} \langle \rangle \dot{C} . \xi(c\infty Z) U'$

The galactic condition $C!$: the emergence of strangeness in the ecosystem $\sim \Theta . \mathfrak{Z}$: the Schwarzschild constant of

the cosmonaut projected in the multiverse $\dot{C} . \xi(c\infty Z)$ by the universe of fiction U'



forêt abstraite $\langle \rangle \sim \Theta . \exists / \langle \mathfrak{h} \rangle \mathfrak{h}_v$

The abstract forest forêt abstraite : the emergence of strangeness in the ecosystems on the product of the

outdoors by hyperspace and its virtualities $\langle \mathfrak{h} \rangle \mathfrak{h}_v$



$\infty Z \star \gamma \langle \rangle \not\subset \text{loops} / \mathfrak{h}_v$

The emergence of the exoclimate $\infty Z \star$ through Medusa hypothesis γ : the decorrelation of loops $\not\subset \text{loops}$ on

hyperspace and its virtualities \mathfrak{h}_v



$\infty Z \star \gamma \langle \rangle (\star V \text{ f-loops}) \alpha \vartheta$

The emergence of the bioluminescent environment $\infty Z \star$ through Medusa hypothesis γ : the product of the dark object

by the meteorologization V of future loops **f-loops** by the extrasolar strangeness $\alpha \vartheta$



$\infty Z \star \gamma / C! \langle \rangle \vartheta \exists$

The relation of the spatio-temporal distribution of the lightdrawings $\infty Z \star$ through Medusa hypothesis γ on the galactic

condition $C!$ flows through the emergence of strangeness in the ecosystem $\vartheta \exists$



M : ∞z^{*} / ∫ . f-loops

The manifold-memory **M** corresponds to the ratio between the spatio-temporal distribution of the dark object ∞z^{*}

and the product of the subject-superject ∫ by future loops **f-loops**



in loops <> ∞∞∞∞∞∞ / hu

In loops with the night **in loops** : the product of temporal phase shifts on hyperspace ∞∞∞∞∞∞ / **hu**



$\gamma \cdot \text{f-loops} / k_{\text{a}} \cdot V \text{ f-loops} : \text{Q}$

The ratio between the product of future loops **f-loops** by Medusa hypothesis γ and the product of the kaleidoscopic

regime of the abyss k_{a} by the meteorologization V of future loops **f-loops** : incorporeal horizons Q



$\text{Q} / nh_{\text{o}} : \text{oasis du futur}$

The ratio between incorporeal horizons Q and the multiplicity of hyperobjects nh_{o} : oasis of the future **oasis du**

futur



\emptyset / nh_0 / $\infty\infty\infty\infty\infty\infty$ *

oasis of the future / time / hyperobjects



$f^* \langle \rangle \infty$ / $h \langle \rangle U$ / $k_{\dot{a}}.V$ f-loops

An anisotropic form f^* is crossed by the relation of the attraction regime and hyperspace ∞ / h by the relation of

the universe of fiction U and the product of the kaleidoscopic regime of the abyss $k_{\dot{a}}$ by the meteorologization of future

loops V f-loops



$\omega_{\xi} : \infty \infty \infty \infty \infty \infty \infty \xi(c \infty Z) . O \langle \rangle$ modes



$\dot{C} \mathfrak{Z} \langle \rangle \acute{\eta} \mathfrak{Z}_{f\text{-loops}}$

The Schwarzschild constant \dot{C} of an ecosystem \mathfrak{Z} is crossed by the nebulization $\acute{\eta}$ of its future loops $\mathfrak{Z}_{f\text{-loops}}$



$\sim h_0 : \infty Z \infty \infty \infty \infty \infty \infty$

The fluctuations of the hyperobjects $\sim h_0$ depend on the spatio-temporal distribution ∞Z of phase shift phenomena



>V f-loops< >∞Z<> ~ *

The collisions <> related to the meteorologization V of future loops f-loops imply a spatio-temporal distribution

∞Z of phase-shift phenomena<> fluctuations of the dark object ~ *



"nho

<> 2 . D . ~ *

The navigation " of the multiplicity of hyperobjects nho corresponds to the product of the strange stranger 2 by the

encounter dimension D by the fluctuations of the dark object ~ *



C! : k_{*}/h

A

å : abyss

0 : archifossile

∞ : attractor

B

loop : loop

s-loop : strange loop

f-loop : future loop

o-loop : open loop

C

Δ : climate

C_s : cosmic condition

C_! : galactic condition

C_⊙ : stellar condition

\times : collision

corail : coral

c : cosmonaut

<> : crossing

▼ : crystal image

D

⦿ : dark image

⊛ : dark object

ϕ : decorrelation

D : encounter dimension

. : dispositif

E

O eco : ecosophical object

∩ : ecosystem

∩ : emergence

X : exform

α : extrasolar

F

~ : fluctuations

C : field

é : foam

f_* : anisotropic form

H

\blacklozenge : hole media

h_* : hyperobject

h_u : hyperspace

I

j : immersion

$\%$: in the distance

∞ : incorporeals

M

\tilde{u} : manifold

γ : Medusa hypothesis

M : memory

V : meteorologization

n : multiplicity

N

\acute{n} : nebulization

O

o : object

fj : outdoors dehors

Ḋ : outside

P

P : plasma

∞∞∞∞∞∞∞∞ : polychrony

Q

q' : quantum leap tunneling effect

R

Ř̇ : regeneration

k : kaleidoscopic regime

Ř̂ : resonance

S

é : scale

" : space travel

∞z : spatio-temporal distribution

ℷ : strange stranger

Θ : strangeness

ƒ : subject-superject

S : cosmos surface

+ : surplus of reality

T

ω : topology

«» : trans-

⇄: transformational pragmatics

«» energy levels : transitions of energy levels

«» modes : transitions of modes of existence

«» objects (o.qo.ho): transitions between objects - quasi-objects - hyperobjects

▲ : triangle of the future - fhs withdrawal plasma

U

U' : universe of fiction

V

v : virtualities

W

\dot{w} : withdrawal

L_0 : world line

V_0 : world volume