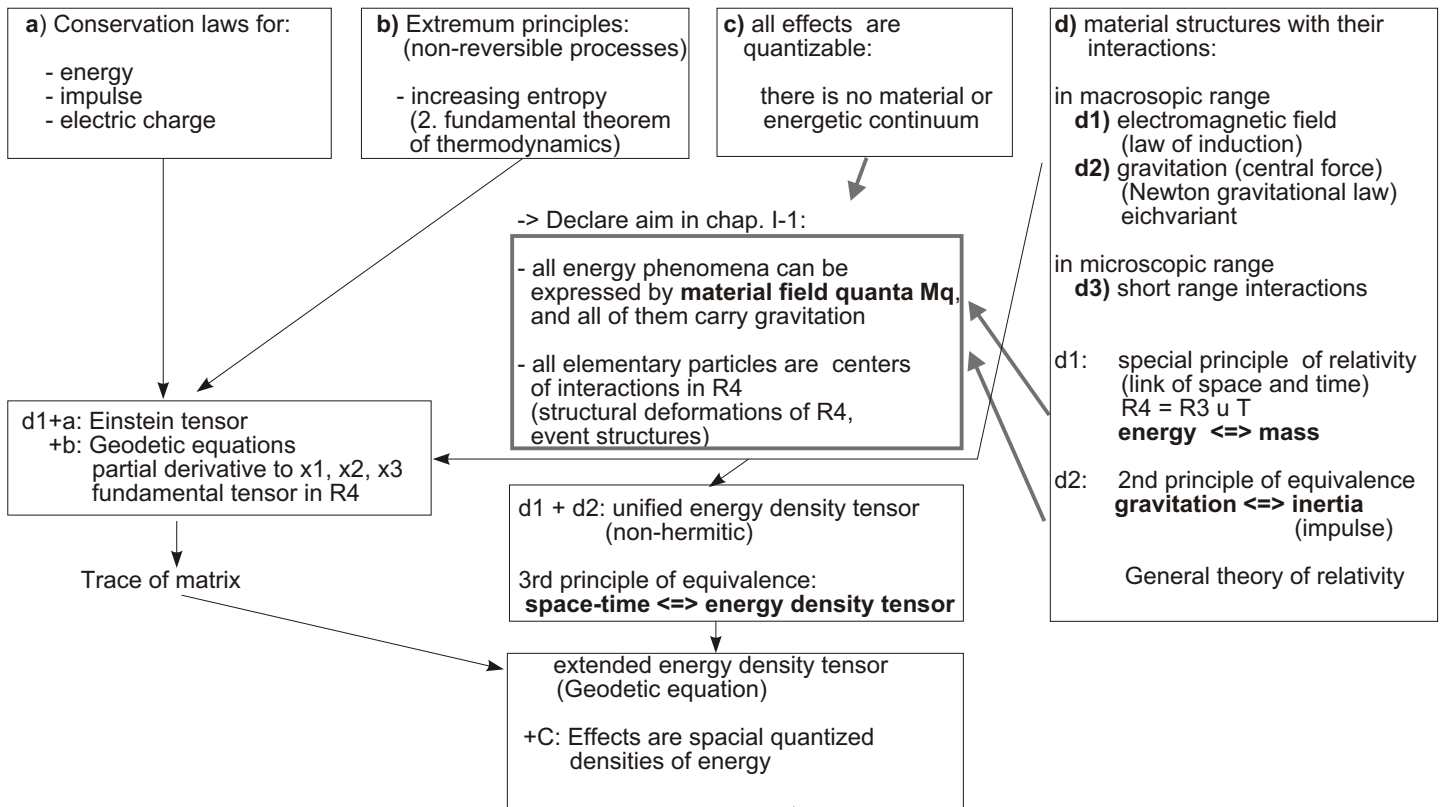


Derivation of R6 as a space containing the material world

Point of departure: surely exist ...



Way A:
Are there any linear state operators?

Matrix trace with spatial metric structure steps

- 64 non-linear tensorial differential equations
- 28 are empty (because of system symmetry)
- 12 more are empty
- 24 are presentable as tensor with n rows

Dimensional law for hyper spaces:
 $(n-1)^2 - 1 = p(p-1)(p-2)$ $p = 4$ subspace R_4
 $n = 6$ hyper space of R_4

Expression as **6x6 tensor** shows structuring in **R6**

$R_3 = x_1, x_2, x_3$ real, "space"
 $T = x_4$ imaginary, "time", links R_3 and S_2
 $S_2 = x_5, x_6$ imaginary, "organisation, structure"

Statics = temporal stationary dynamic equilibriums of micro fluctuations (fluxes of structures)

Way B:
Is there any geometrical minimum unit (geometric quantum)?

gravitative field energies <=> field mass
This has to be included in gravitational law.

+ a: **Corrected gravitational law**

with $m > 0$ it becomes $r_0^* =$ **Metron** (area)
(m) geometric minimum unit

c: differential calculus is not allowed here
Difference calculus: all differences of metronized values have to be expressed by amounts of

$x_1 \dots x_6$ are integer multiples of

Coordinates geodetic lattice of metrons

Metronization procedure:
A tensorial selector ("fundamental condensor") describes the compression of metrons when a metronic structure is projected into R_n .

A + B:

A Fundamental condensor (hypothetic structure in R_6 is structure of material world (R_6) is not a structure of material world

B **world selector** → result = ?
----- zero selector
----- not zero

4 classes of solutions:

- a:** x_5, x_6 S_2 gravitation (gravitons of a gravitational field disturbance)
- b:** x_4, x_5, x_6 $T \cup S_2$ photons
- c:** x_1, x_2, x_3, x_5, x_6 $R_3 \cup S_2$ neutral elementary particles
- d:** $x_1, x_2, x_3, x_4, x_5, x_6$ $R_3 \cup T \cup S_2$ electricly charged particles

Ponderable particles are bound to R_3 .

4 kinds of physical interactions in R_6

Type:	Coordinates:	Subspaces:	Interpretation:	Calculatable solution:
a:	x5,x6	S_2	Outside time-space, not to interpret with today's physical concepts, influences gravitation (gravitons with a gravitational field interference)	Field's masses
b:	x4,x5,x6	$T \cup S_2$	Everything moving with speed of light without retardation possible	
c:	x1,x2,x3, x5,x6	$R_3 \cup S_2$	Electromagnetic field, photons	Elementary mass
d:	x1,x2,x3,x4,x5,x6	$R_3 \cup T \cup S_2$	Ponderable electrically charged particles, electric charge field	Elementary charge

Applications of the corrected gravitational law

Corrected gravitational law:

Borders: r_0 R_0

Field: 0 attraction 0 weak repulsive effect 0

$= \frac{h^2}{m^3}$

$r q e^{-q} = A (1 - m^3 r / h^2)^2$

$A = \frac{3 M}{16 c^2}$

$q = 1 - \sqrt{1 - 3 / 8 c^2}$

Square of stable circular speed in distance r

r Distance

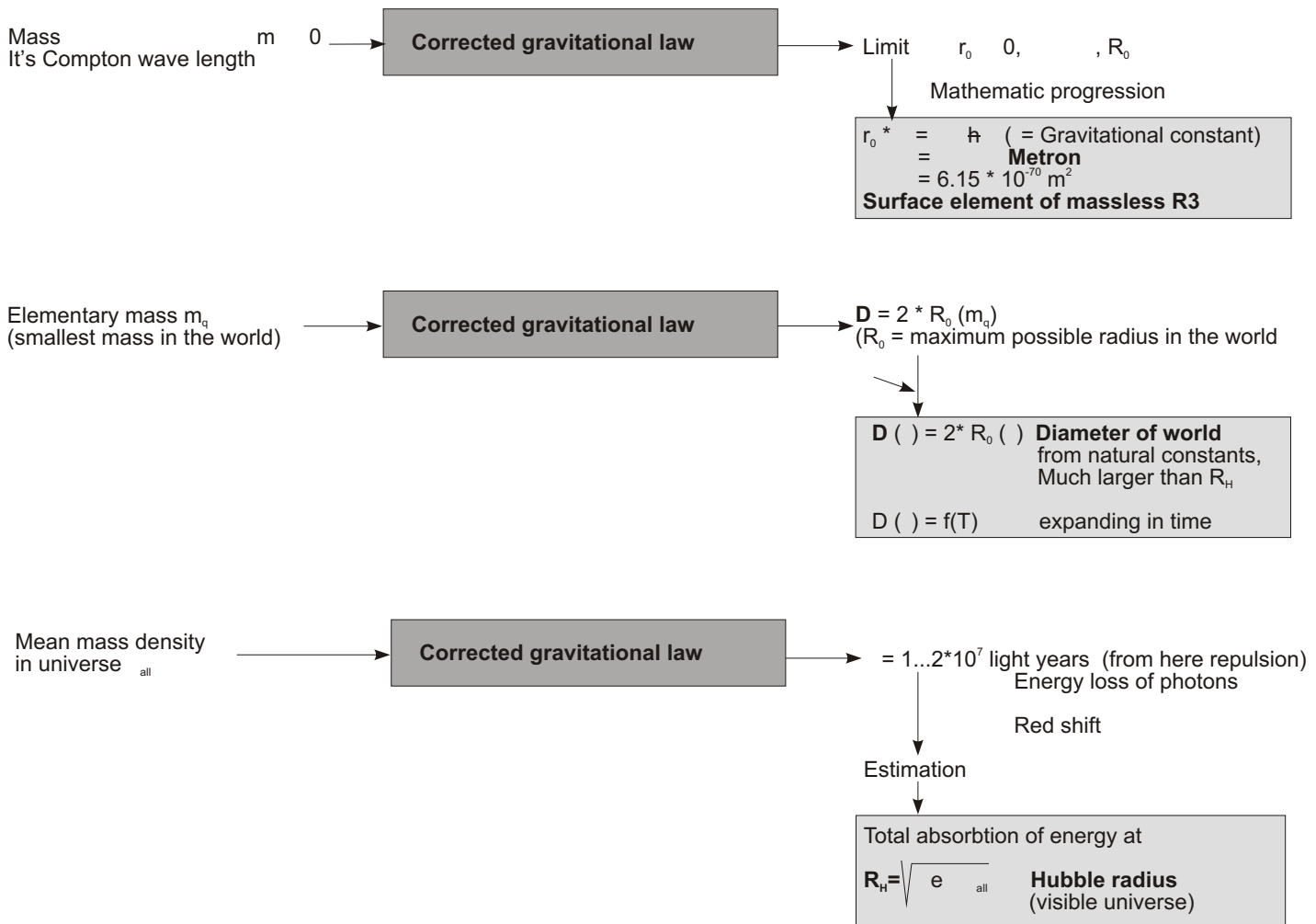
Gravitational constant

h Planck's constant

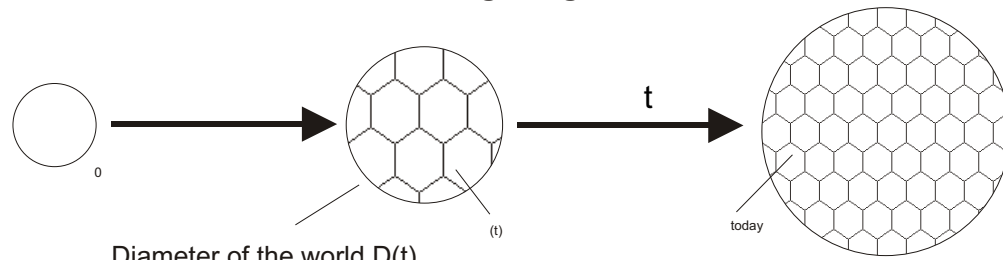
c Speed of light

M Mass

m Mean atom mass



Conclusions about cosmological genesis of the world



Diameter of the world $D(t)$

Age of the world	$t = 0$	Actualisations in 3 metronic time intervals	Today
Diameter of the world D :	$D =$	$\mu_1 = f(S_2)$	D growing
Metron :		$\mu_2 = f(T)$	shrinking
Number of metrons:	$n = 1$	$\mu_3 = f(R_3)$	n rising

Cosmological equation $D(\)$
(Differential equation 7. grade)

1 imaginary solution
6 real solutions

2 trinities of monometric spheres (Trinity of spheres):	
in positive branch	in negative branch
$D_f = 0.91 \text{ m}$	$df = 17 \text{ cm}$
$D_m = 1.06 \text{ m}$	$dm = 27 \text{ cm}$
$D_p = 3.70 \text{ m}$	$dp = 62 \text{ cm}$

1. Update

Still only
one $D(\)$

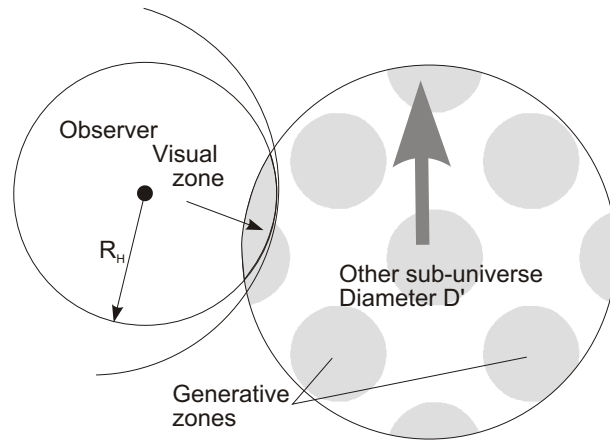
Further updates in time

Expanding R_3

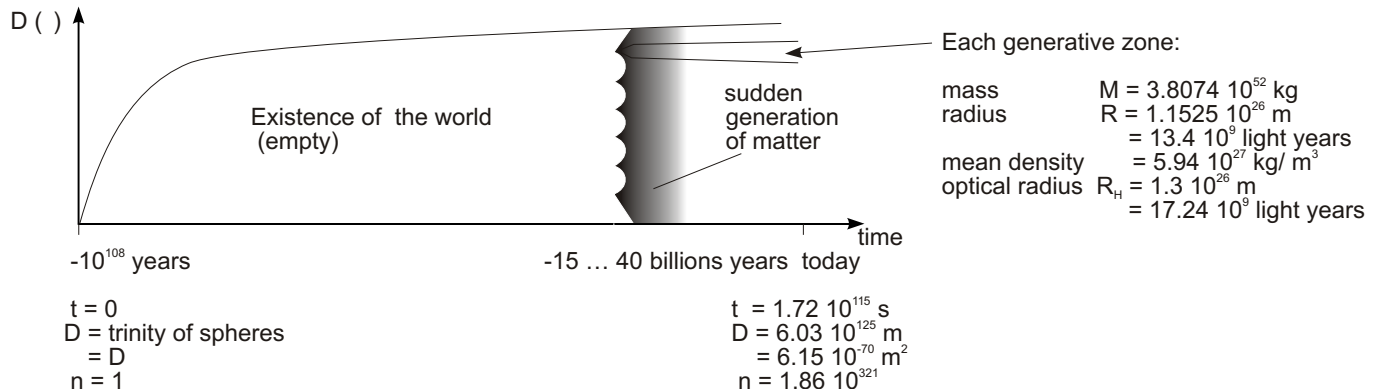
$D = 6.03 \cdot 10^{125} \text{ m}$ whole world
 $D' = 4.66 \cdot 10^{34} \text{ m}$ Macro structure of cosmos (Sub-universes)

Natural constants of the world are changing with

Passing of another universe through our visual zone



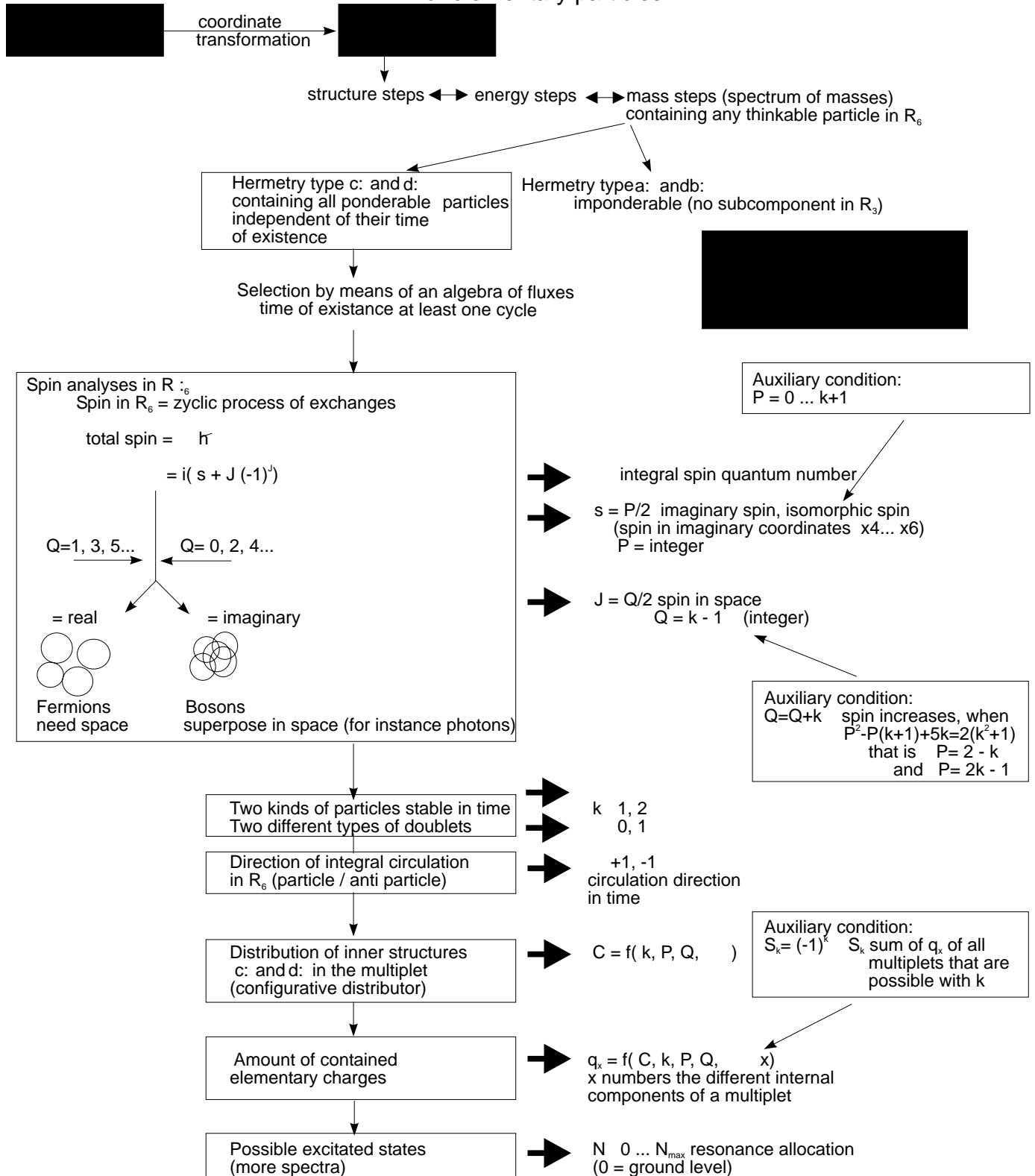
Age of the world and generation of matter



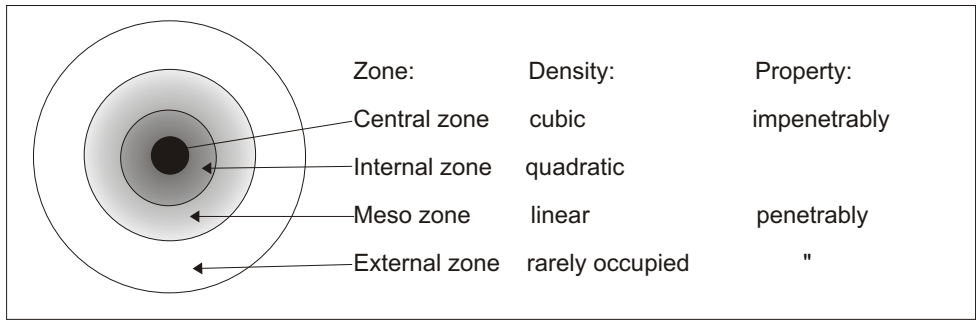
Particles as cyclic periodic processes of interchanges in R (Condensor fluxes)



Generation of quantum numbers from a dynamical geometric description of elementary particles



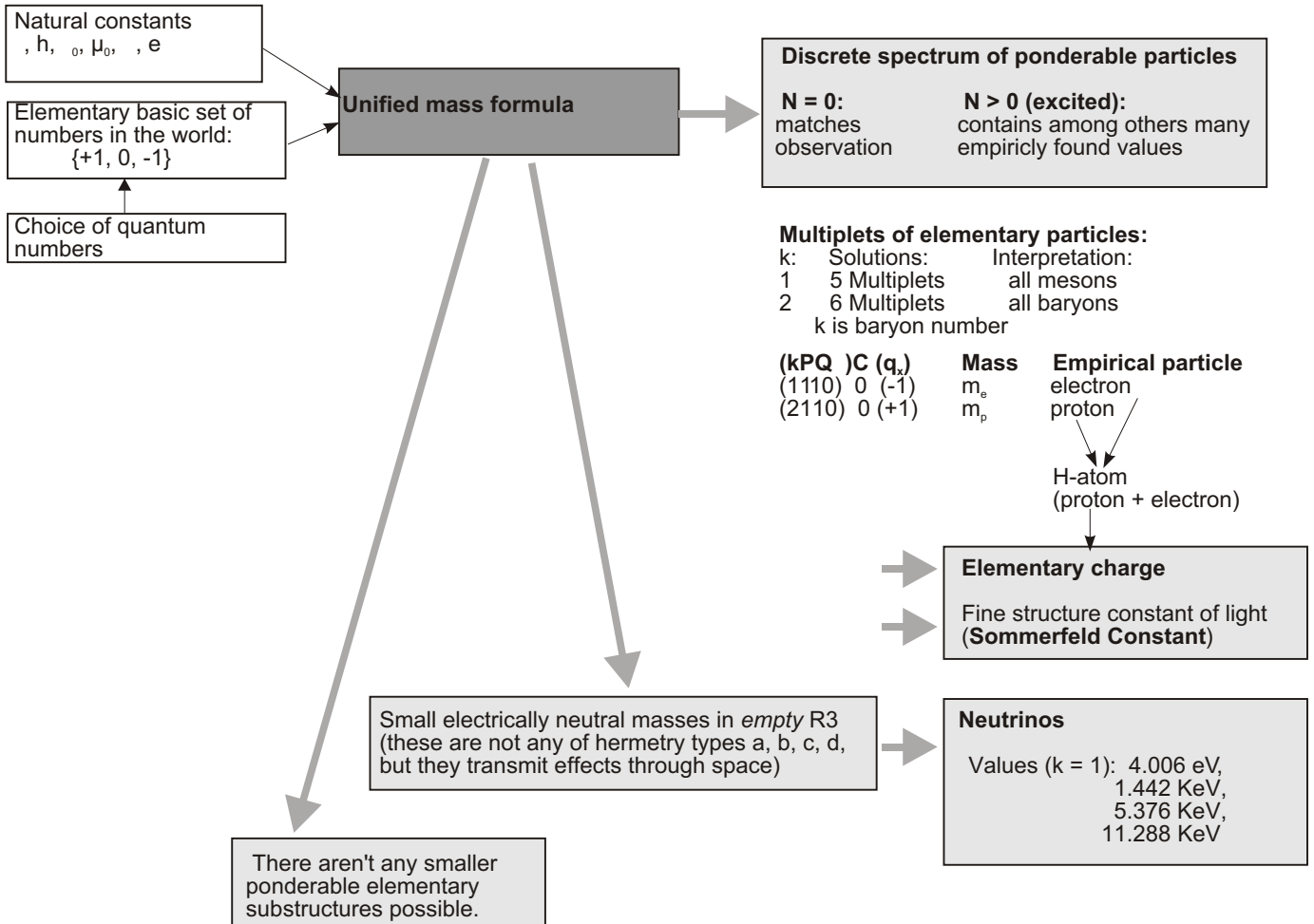
Inner density of protosimplexes in elementary particles



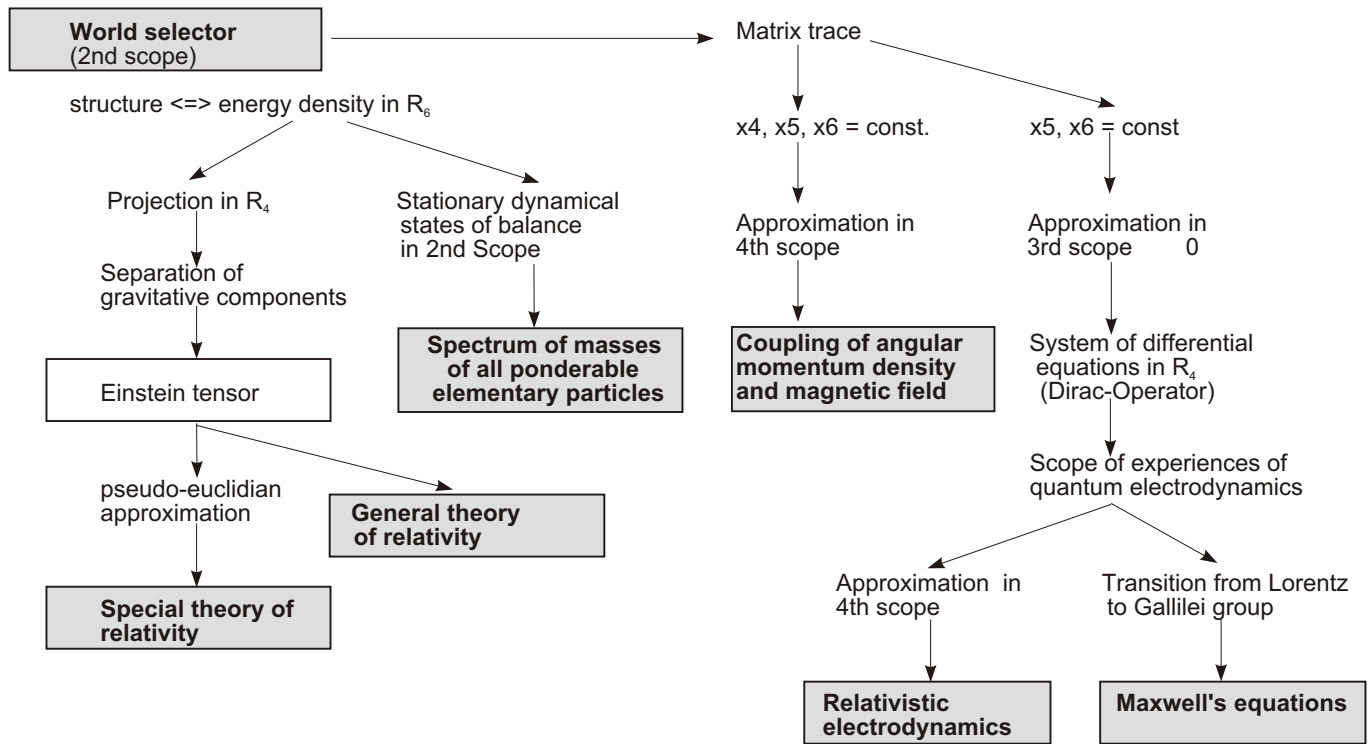
Geometrical quantum numbers and their empirical counterparts

Quantum numbers:	Number	Selecting conditions	Empirical counterparts
k, P, Q, C, q_x, N	k	1, 2	Configuration number (Barion number $B = k - 1$)
	P	$0 \dots k+1$	Isomorphic spin
	Q	$k-1$ resp. $2k-1$ for $P=2-k$, $P=2k-1$	Spin in space
Calculated from: k, P, Q	C	0 (=1 doublet) $f(k, P, Q, \dots)$	Doublet Configurative distributor (strangeness)
	q_x	$f(C, k, P, Q, \dots)$	Charge quantum number
	N	$0 \dots N_{max}$ $+1$	Resonance allocation Time helicity (spin orientation of the exchanging processes) (particle/ anti particle)

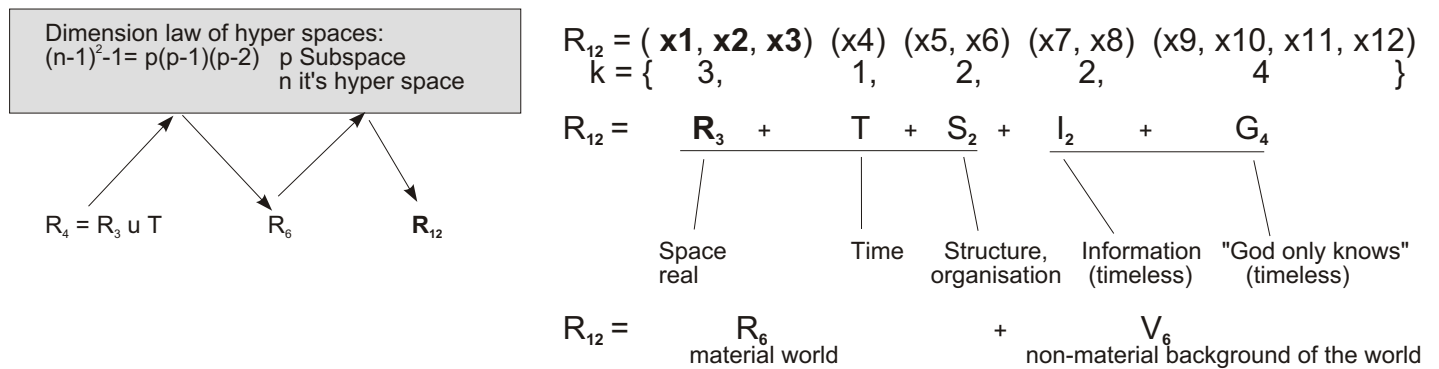
Input and results of Heim's mass formula



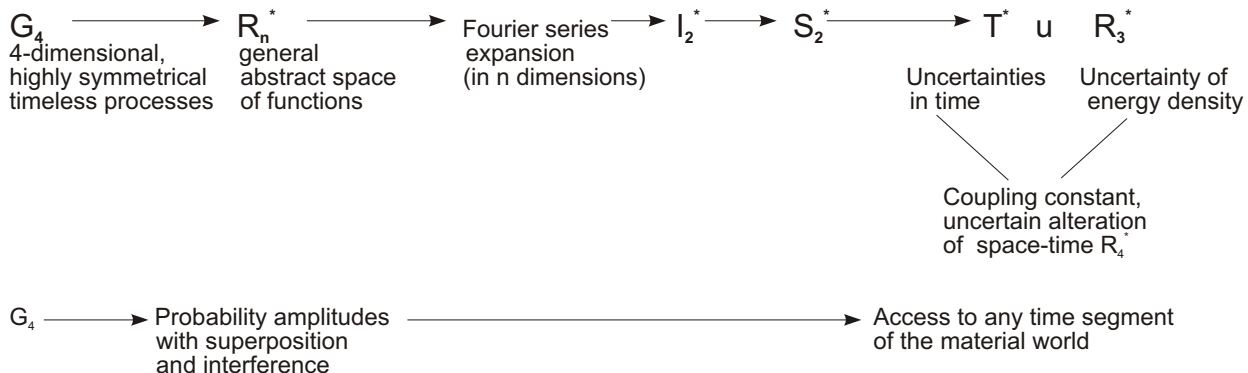
Classification in the system of known physical theories



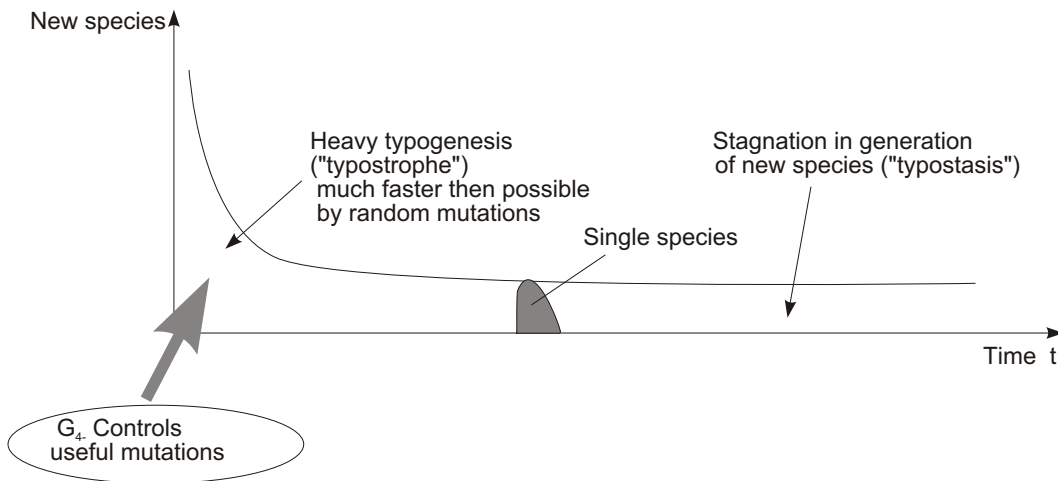
Material and non-material background of the world (R_{12})



Control of spacetime from G_4



Development of life on earth (phylogenesis of species)



Chain of effects from G₄ into range of human experience

