

## Table of contents

4 What is life.....	1
4.1 Life development on earth table.....	1
4.2 Three rules of the Physics of Life.....	4
4.21 First rule of the Physics of Life.....	5
4.22 Second rule of the Physics of Life.....	7
4.23 Third rule of the Physics of Life.....	7
4.3 Life definition.....	7
4.31 Introductory considerations.....	7
4.32 A short history of evolution.....	9
4.33 HeHe Structure.....	11
4.34 Life definition.....	14
4.4 The process of evolutionary improvement, more about details.....	17
4.41 What disturbs in understanding?.....	17
4.42 Simple process and its consequences.....	19
4.43 Interdependence .....	20
4.44 Self-generating, self-improving, self-driving.....	21
4.45 Evoluants of dualism.....	23
4.46 Development of new “victory” factors.....	24
4.47 One-way Street – directional selection.....	27
4.48 Stabilization - stabilizing selection.....	27
4.49 Speciation, tearing apart selection.....	28
4.410 Optimization above all – the most advantageous in the given conditions.....	29
4.411 “S-nastu hypothesis”.....	30
4.412 “Pioneer’s Syndrome”.....	32
4.413 Project modification characteristics.....	33
4.414 Death .....	37
4.415 The methods of deriving from resources.....	38
4.416 Co-operation.....	40
4.417 Creating process.....	41
4.418 Speculations about life origination.....	41
4.419 Some interesting details of earthly process of evolutionary improvement.....	43
4.420 What then?.....	45
4.421 Pure mathematics.....	46
4.5 Tactics issue enlargement .....	47
4.51 Tactics development.....	47
4.52 Multilayers.....	49
4.53 Projects carriers: genetic and extra-genetic.....	50
4.54 How to write the tactics?.....	53
4.5.41 Rule .....	53
4.5.42 Reflex.....	54
4.5.43 Stereotype .....	54
4.5.44 Fixed behaviour patterns.....	55
4.5.5 Tactics dependence in community.....	57
4.5.51 Playing in community.....	57
4.5.52 Susceptibility to disturbances/disorders.....	59
4.5.53 Payment table.....	60
4.5.54 Broken windows theory.....	61
4.5.55 A balance of survival points.....	64

4.5.5.6 Resergy, Vivergy.....	65
<b>4.6 Life from nothing to present state.....</b>	<b>69</b>
4.61 Start - replicators.....	69
4.62 Origination of diverse objects.....	76
4.63 Specialization, grouping, co-operation.....	77
4.64 Analysis of CPPDE systems.....	79
4.65 Analysis of social systems.....	80
4.66 Multi-cell organism – a perfect co-operating system.....	81
<b>4.7 Evolution .....</b>	<b>85</b>
4.71 “Victory” factory table.....	85
4.72 Evolution, problems with the definition.....	87
<b>4.8 Singular live object.....</b>	<b>89</b>
4.81 Life dependence right.....	90
4.82 The right of tactics used for life strategy realization optimization.....	91
4.8.21 The rules of deriving from resources optimization.....	92
4.8.22 The rule of co-operation optimization.....	93
4.8.23 Resources hierarchy rule.....	93
<b>4.9 How to perceive?.....</b>	<b>93</b>
<b>4.10 Some reflections</b>	