#### Table of contents

### 1 The model of nonlinear interactions

- 1.1 Fluctuations of the planetary gravitational field
- 1.2 Nonlinear interactions
- 1.3 The correlation function

## 2 Earthquakes

- 2.1 A first study of 41 of the strongest earthquakes
- 2.2 A study of 588 earthquakes

## 3 Structure formation of biological patterns

- 3.1 A first study on the IQ of 186 persons
- 3.2 Study on a factor in an IQ test
- 3.3 Persons with high giftedness
- 3.4 Correlation with mental instabilities

### 4. Pattern formation for an AI

- 4.1 41 earthquakes
- 4.2 588 earthquakes
- 4.3 Persons with high IQ and with low IQ
- 4.4 Example for the time quality of the month May in the year 2023

# 5 Temporal rhythms in society

## 6 Correlations in the individual development of humans

- 6.1 Development from birth to 12 years of age
- 6.2 Development from the 13th to the 24th year of life
- 6.3 Special features of the biography from the age of 25 onwards

# 7 Concluding remarks

# 8 Bibliography

### 9 Selected data

- 9.1 The 41 strongest earthquakes 1900 to 2000
- 9.2 List of the highly gifted

## 10 Manual for the ASTRO-basis research program

- 10.1 Start of the program
- 10.2 Calculation of the 41 earthquakes
- 10.2.1 Statistics 1 Continuum
- 10.2.2 Event Analysis
- 10.2.3 Statistics 2 Density Function
- 10.2.4 Matrix Probability
- 10.2.5 Planetary Fluctuations time quality

