07.00.00 Historical sciences and archaeology

07.00.00 Исторические науки и археология

UDC 519.72: 681.3 (0.75.8)

Ways of Communicating Information on Space Systems

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Abstract. The article deals with and examines the chronological anomaly of astronautics. The article further provides data attesting to the space origin of the anomalies in question.

Keywords: astronautics; chronology; statistics; patterns.

Introduction

The founder of the doctrine about bio- and a technosphere V.I.Vernadsky noticed, that «the science history is ... the tool of achievement new», and «repetition of the phenomena in time is one of the brightest displays of law» [1]. He considered development of a science and technics as the process which is subject to research by a natural-science method: «similar displays cannot be casual, and are so subordinated to weight and a measure, as movement of astronomical objects or a course of chemical reactions» [1].

The method of research applied in article, is based on the statistical analysis of chronology by means of parametrization of dates of events. Parametres are used: conditional numbers of days from the beginning of chronology N, from the beginning of year n and year's number Y. For date 4/12/1961: $n(12.04) = 102$, Y = 1961, $N (4/12/1961) = 1961*365 + [1961/4] +31+28+31+12 = 715992$.

Properties *of intervals of time* between events ΔN, Δn, ΔY are investigated.

Informative property (coincidence) – the exact or approached frequency rate of intervals to informative codes C: $\Delta N \vdots C$, $\Delta n \vdots C$, $\Delta Y \vdots C$.

A.L.Chizhevsky is the founder of the solar biology. He one of the first investigated influence of space factors on historical process [2]. He connected accidents in biosphere with the periods of solar activity. The considerable contribution to development of space philosophy was brought by K.E.Tsiolkovsky [3].

Codes, reflecting influence of the space factor. In article correlation of parametres of chronology and factors of a gravitational constant is proved:

G=6,67 … $\cdot 10^{-11}$ N·m^2/kg^2 [4-6]. For informative research the greatest admissible integer codes are used. Therefore the constant registers in a kind: G=**667** … $\cdot 10^{-13}$ N·m^2/kg^2. Value of a mantissa **667** and the module of an order **13** we will accept for the basic informative codes. The code **666**, as the approached value for a code **667** is in addition considered.

Probabilities of performance of the informative properties are rather small. In detail probability-theoretic calculation is considered in item 2.

Multiple coincidence is priority and is allocated with underlining.

1. **The Description of chronological anomaly**

Anomaly "centre" is dates of the outstanding historic figure.

A.S.Pushkin – the great thinker, the academician of the Russian Academy, the historian (main historiographer of Russia with 1831).

1.1. Pushkin and Space laws

According to publications of Pushkin societies of Russia, in 1829 on a way to Arzrum Pushkin has left on storage (for 150 years) at his acquaintance, the known ataman of the Army the Don D.E.Kutejnikov archive with the description of the laws of space opened by him. Subsequently, allegedly, the descendant of the ataman became the keeper of legendary archive I.M. Rybkin (1904–1994), the inhabitant of the Rostov area, the graduate of the North Caucasian power institute. In 150 years, in 1979 Rybkin, giving reason for necessity to execute Pushkin's precept, has organised disturbed the Soviet authorities and received wide popularity an exhibition on a theme of opening of the ingenious thinker: Space laws, the device of cycles, history, the inorganic form of a life. According to Rybkin in archive the knowledge of cycles in the nature and a society is ciphered (Rybkin I.M. «Russian mathematical science». Taganrog. A Pushkin Science. 1997).

1.2. A phenomenon of a surname and Pushkin's date

The surname of the thinker occurs from the word "*gun*". The jet artillery is related usual artillery (the gun and a rocket on the device and an action principle have much in common). The artillery and the rocket weapon traditionally unite in one sort of rocket armies and artillery. Pushkin is the genius of the country of the first artificial satellite and the cosmonaut.

It is remarkable, that Pushkin's dates are phenomenally connected with dates of history of artillery, the rocket technics and astronautics.

Applied below a designation we will explain on an example of dates of a life of Pushkin: $N_1^{ASP}=N$ (6/6/1799), $N_2^{ASP}=N$ (2/10/1837), $n_1^{ASP}=n$ (6.06),
$$n_2^{ASP}=n \ (10.02), \ Y_1^{ASP}=1799, \ Y_2^{ASP}=1837.$$

1.3. Chronological anomaly of history of rocket technics

Van Gu, the inventor of the first rocket flying machine (nearby 1500, China), was lost during tests [4, 5]: $Y_2^{ASP} - Y + 1 \vdots \mathbf{13*13}$.

The first large-scale application of the rocket weapon took place in India in 1792 and in 1799 [4, 5]: $Y_2 - Y_1^{ASP} \vdots \mathbf{13*13}$.

Tipu Sultan (11/20/1750 - 5/4/1799), Indian prince, the organizer of the first rocket armies was lost in a year of a birth of Pushkin in *1799*:
$$Y_2 - Y_1^{ASP} \vdots \mathbf{13*13}, \ n_1 - n_1^{ASP} + 2 \vdots \mathbf{13*13}.$$

G.Koanda (6/7/1886–11/25/1972), the designer and the pilot of the first jet plane (Romania, 1910) was born next day after an anniversary of a birth of Pushkin: $n_1 - n_1^{ASP} - 1 \vdots \mathbf{13*13}$.

The first start of a rocket with the liquid jet engine has been carried out in USA 3/16/1926: $N - N_1^{ASP} + 1 = \underline{\mathbf{13*13*13}}7*(-1+3)$.

R.Goddard (10/5/1882 - 8/10/1945), the designer of this rocket:
$$N_1 - N_2^{ASP} + 2 \vdots \mathbf{667}, \ N_2 - N_1^{ASP} - 1 = \mathbf{13*13}69*1*3.$$

Start of the first Soviet rocket with the liquid jet engine 11/25/1933 [4, 5]: $N - N_2^{ASP} - 1 \vdots \mathbf{667}$.

M.K.Tihonravov (7/29/1900 – 3/4/1974), the head creation of the first Soviet rockets: $n_1 - n_2^{ASP} \vdots \mathbf{13*13}$.

First operated fighting ballistic missile V-2 has been applied for the first time 9/8/1944: $N - N_2^{ASP} + 2 \vdots \mathbf{666}$.

The first intercontinental ballistic missile has been tested in USSR 8/21/1957: $N - N_2^{ASP} = \mathbf{667}*66$.

S.P.Korolev (1/12/1907 – 1/14/1966), the main rocket designer of the USSR: $Y_2 - Y_1^{ASP} + 2 \vdots \mathbf{13*13}$.

M.I.Nedelin (11/9/1902 - 10/24/1960), the first commander-in-chief of Rocket strategic forces: $N_1 - N_2^{\text{ASP}} - 1 = \mathbf{667}*6*6$.

M.V.Keldysh (2/10/1911 - 6/24/1978), called in a press «the main theorist of astronautics»: $n_1 - n_2^{\text{ASP}} \vdots \mathbf{13}*\mathbf{13}$.

H.P.Kamanin (10/18/1908 - 3/12/1982), the known chief of group of cosmonauts (1966–71): $N_2 - N_1^{\text{ASP}} \vdots \mathbf{13}*\mathbf{13}$.

Multiple coincidence is absent only for dates of designer V-2 *Werner fon Brown* (3/23/1912 - 6/16/1977): $N_2 - N_1^{\text{ASP}} + 1 \vdots \mathbf{13}$.

1.4. Correlation of dates of Pushkin and founders of the theory of gravitation

Parametres of a gravitational constant are the basic informative codes. Gravitation has paramount value for the rocket technics, as its primary goal - gravitation overcoming.

G.Galilej (2/15/1564 – 1/8/1642) has opened laws of falling of bodies:
$$N_1 - N_2^{\text{ASP}} + 1 \vdots \mathbf{13}*\mathbf{13}, \quad Y_1^{\text{ASP}} - Y_1 - 1 \vdots \mathbf{13}, \quad Y_2^{\text{ASP}} - Y_1 \vdots \mathbf{13},$$
$$Y_1^{\text{ASP}} - Y_2 - 1 \vdots \mathbf{13}, \quad Y_2^{\text{ASP}} - Y_2 \vdots \mathbf{13}.$$

I.Newton (1/4/1643 - 3/31/1727) has entered a gravitation constant into consideration:
$$N_1^{\text{ASP}} - N_2 - 1 = \underline{\mathbf{13}*\mathbf{13}*\mathbf{13}} *(\mathbf{13}–1), \quad Y_1^{\text{ASP}} - Y_1 \vdots \mathbf{13}, \quad Y_2^{\text{ASP}} - Y_1 + 1 \vdots \mathbf{13}.$$
Remarkable coincidence for Pushkin's date of birth on old style:
$N(5/26/1799) - N_1^{\text{IN}} + 1 = \underline{\mathbf{13}*\mathbf{13}*\mathbf{13}*\mathbf{13}}*(–1+3)$.
The gravitation law is opened about 1667 [4,5]: $Y_2^{\text{ASP}} - Y - 1 = \mathbf{13}*\mathbf{13}$.

1.5. Laws of history of space flights

«*Explorer-1*» 2/1/1958: $N - N_2^{\text{ASP}} + 1 = \mathbf{13}*\mathbf{103}*\mathbf{33}$ (the first artificial satellite of the USA).

«*Pioneer-1*» (3/11/1960): $N - N_2^{\text{ASP}} - 1 = \underline{\mathbf{13}*\mathbf{13}*\mathbf{13}}3*(–1+3)$ (the first interplanetary space vehicle).

J.A.Gagarin (3/9/1934 - 3/27/1968), the first cosmonaut:
$$Y_2 - Y_1^{\text{ASP}} = \mathbf{13}*\mathbf{13}, \quad Y_2 - Y_2^{\text{ASP}} = \mathbf{13}1.$$
Coincidence for date of flight of Gagarin see in item 1.8.1.

The first exit into an orbit of the Moon of piloted ship 12/24/1968:
$N - N_2^{\text{ASP}} \vdots \mathbf{13}*\mathbf{13}; \quad Y - Y_1^{\text{ASP}} = \mathbf{13}*\mathbf{13}$.

The first flight with disembarkation to the Moon (1969):
$Y - Y_1^{\text{ASP}} - 1 = \mathbf{13}*\mathbf{13}$.

The first space station and destruction of its expedition

Start of orbital station "Salute" 4/19/1971 was the second achievement of the Soviet piloted astronautics: $N - N_2^{\text{ASP}} - 1 \vdots \mathbf{13}*\mathbf{13}$.

Visiting expedition has begun work *in Pushkin's birthday* 6/6/1971:
$n - n_1^{\text{ASP}} \vdots \mathbf{13}*\mathbf{13}$.

Cosmonauts G.T.Dobrovolsky, V.N.Volkov, V.I.Patsaev were lost at end of expedition 6/30/1971.

G.T.Dobrovolsky (was born 6/1/1928), the commander:
$N_1 - N_2^{\text{ASP}} + 1 \vdots \mathbf{667}$.

V.N.Volkov (was born 11/23/1935): $n_1 - n_1^{\text{ASP}} - 1 \vdots \mathbf{13}*\mathbf{13}, \quad n_1 - n_2^{\text{ASP}} \vdots \mathbf{13}$.

V.I.Patsaev (was born 6/19/1933): $N_1 - N_1^{\text{ASP}} + 1 \vdots \mathbf{13}, \quad n_1 - n_1^{\text{ASP}} = \mathbf{13}$,
$n_1 - n_2^{\text{ASP}} + 1 \vdots \mathbf{13}$.

From the major events of a considered historical theme of coincidence are absent only for date of flight of the first artificial satellite.

1.6. The first and largest accidents rockets and astronautics of the USA

The largest accident of rocket technics of USA 8/9/1965 (rockets explosion, 53 persons were lost): $N - N_1^{\text{ASP}} + 1 = \underline{\mathbf{13}*\mathbf{667}}*(6–6+7)$.

1/27/1967 in a fire by the ship "Apollo-1" 2nd astronaut of the USA ***V.Grissom*** (was born 4/3/1926) was lost: $Y - Y_1^{ASP} + 1 = \textbf{13*13}$, $Y - Y_2^{ASP} \vdots \textbf{13}$.

Ship accident **«Challenger»** 1/28/1986: $N - N_1^{ASP} - 1 = \textbf{13*13}11*(1+3)$.

F.R.Skobi (was born 5/19/1939), the commander of crew:

$N_1 - N_2^{ASP} - 1 \vdots \textbf{667}$, $N_1 - N_1^{ASP} - 1 \vdots \textbf{13}$.

Destruction of the great astronaut in a year of 200-year-old anniversary of Pushkin

Charlse Conrad (6/2/1930 - 7/9/1999), the commander of 2nd crew which has stepped into the Moon, was lost as a result of accident for 59319 day after Pushkin's death: $59319 = \underline{\textbf{13*13*13}}*1*3*1*3*1*3$.

1.7. The rocket technics and astronautics of the USSR

The largest accident of rocket technics of USSR 10/24/1960 (rockets explosion). In accident the first commander of rocket armies ***M.I.Nedelin*** (its coincidence see above in section of history of rocket technics) was lost.

V.V. Bondarenko (2/16/1937 – 3/23/1961), 1st lost Soviet cosmonaut-verifier. He was born in *100* years after Pushkin's death:

$N_1 - N_2^{ASP} - 1 \vdots \textbf{13}$, $N_2 - N_2^{ASP} - 1 \vdots \textbf{13}$.

G.G.Neljubov, 2nd lost verifier 2/18/1966: $Y_2 - Y_1^{ASP} + 2 \vdots \textbf{13*13}$.

V.M. Komarov (3/16/1927 – 4/24/1967) was lost at end of space flight:

$Y - Y_1^{ASP} + 1 = \textbf{13*13}$, $Y - Y_2^{ASP} \vdots \textbf{13}$.

J.A.Gagarin (3/9/1934 - 3/27/1968) was lost in an air crash:

$Y - Y_1^{ASP} = \textbf{13*13}$.

P.I.Beljaev (6/26/1925 – 1/10/1970), 3rd died among Soviet cosmonauts flying to space: $Y_2 - Y_1^{ASP} - 2 \vdots \textbf{13*13}$.

1.8. Gagarin and Shepard – space duel of the XX-th century

The duel's theme is sign for Pushkin's biography.

G.Dantes (2/5/1812 – 11/2/1895), the French emigrant, his contender on the well-known duel.

The given feature of the biography of Pushkin will well be co-ordinated with the drama beginning of history of piloted astronautics. Competition of the USSR and the USA in space had character of the real duel.

Dates of flight of Gagarin and day of Pushkin's duel are connected:

$N (4/12/1961) - N (2/8/1837) + 2 \vdots \textbf{667}$.

The first cosmonaut of a planet was lost for **169**th year after a birth, in 131 year (in 47892 days) after Pushkin's death:

$$Y_2 - Y_1^{ASP} = \textbf{13*13}, Y_2 - Y_2^{ASP} = \textbf{13}1, 47892 \vdots \textbf{13}.$$

A.Shepard (11/18/1923 – 7/22/1998) – the first astronaut of America. Conformity with Dantes's dates: $N_2 - N_2^{GD} \vdots \textbf{13*13}$, $n_2 - n_1^{GD} + 2 \vdots \textbf{13*13}$.

1.9. The second space duel of the USSR and the USA

In 1966 Gagarin in group L-3 had training preparation for flight on the Moon. However astronauts of the USA became winners of new space competition. Flight dates to the Moon of the ship "Apollo-8" and Pushkin's duel are connected: $N(12/21/1968) - N(2/8/1837) + 1 \vdots \textbf{13*13}$.

J. Lovell (was born 3/25/1928), the pilot "Apollo-8", his dates correspond to Dantes: $N - N_1^{GD} + 1 \vdots \textbf{13*13}$, $N - N_2^{GD} - 2 \vdots \textbf{13*13}$.

Gagarin was lost in a year of historical flight of astronauts (on 169th year after Pushkin's birth): $Y - Y_1^{ASP} = \textbf{13*13}$.

1.10. Unique duel of artificial satellites of Russia and the USA

2/10/2009 in an anniversary of death of Pushkin there was rather rare event – collision (over territory of Russia) two satellites (Iridium and «Cosmos-2251»): $n - n_2^{ASP} \vdots \textbf{13*13}$.

1.11. Astronauts-Afro-Americans

Pushkin's feature is his African origin.

Robert Lawrence (10/2/1935 - 12/8/1967), the first astronaut-Afro-American, was lost in an air crash: $Y_2 - Y_1^{ASP} + 1 =$ **13*13**.

Gijon Stewart Bluford (was born 11/22/1942), the first Afro-American who has made space flight: $n - n_1^{ASP} =$ **13*13**.

Frederik Drju Greg, 1st Afro-American – the head of NASA, was born 1/7/1941 in 51714 days after Pushkin's birth: 51714 ⠒ **13*13**.

F.D.Gregori has started to supervise over NASA in 2005: $Y - Y_2^{ASP} + 1 =$ **13*13**.

1.12. The first women-cosmonauts

V.V. Tereshkova **(was born 3/6/1937), the first woman-cosmonaut was born in** *100* **years after Pushkin's death.**

Sally Kristen-Ride (was born 5/26/1951), the first woman-astronaut of the USA. Her coincidence on a Pushkin theme is phenomenal. S.Kristen-Ride - the bachelor of the literature, the expert in poetry. Conformity of dates S. K.-Ride and Pushkin it is perfect under the form: $N - N_2^{ASP}$ ⠒ **13*13*13**.

S. K.-Ride was born on May, 26th, and the poet – also on May, 26th (on old style). Coincidence for dates takes place also S. K.-Ride and sisters of poet O.S.Pushkina (12/31/1797 – 5/14/1868): $N - N_1^{OSP} - 1$ ⠒ **667**.

1.13. Heads of the first national space programs

Eisenhower – the founder of NASA

D.Eisenhower (10/14/1890 – 3/28/1969), the US president, carried out the general management of the first space program of the USA. He has ordered to catch up with the USSR in space competition. It posesses idea of the prospecting artificial satellites.

Phenomenal quantity of coincidence to Pushkin's dates:
$$N_1 - N_2^{ASP} ⠒ \mathbf{13*13}, \quad N_2 - N_1^{ASP} ⠒ \mathbf{13*13}, \quad Y_2 - Y_1^{ASP} - 1 ⠒ \mathbf{13*13},$$
$$Y_1 - Y_1^{ASP} ⠒ \mathbf{13}, \quad Y_1 - Y_2^{ASP} - 1 ⠒ \mathbf{13}, \quad n_1 - n_2^{ASP} + 1 ⠒ \mathbf{13}, \quad n_1 - n_1^{ASP} ⠒ \mathbf{13}.$$

NASA **– the largest organisation of space researches is founded 7/29/1958 by**
D.Eisenhower's decree: $n - n_2^{ASP} = 13\mathbf{*}13$.

John Kennedy – the initiator of the lunar program of NASA

J. Kennedy (5/29/1917 – 11/22/1963), the US president in 1961–1963 has the direct relation to astronautics. His name carries the well-known space centre on cape Canaveral (earlier cape Kennedy). He declared space new border of the USA. For restoration of prestige of the USA he has proclaimed the program "Apollo" a national problem.

Phenomenal coincidence for dates of the president and Pushkin:
$$N_2 - N_2^{ASP} = \underline{\mathbf{13*13*13}}7*(-1+3); \quad n_2 - n_1^{ASP} = \mathbf{13*13};$$
$$N_1 - N_1^{ASP} + 3 ⠒ \mathbf{13*13}, \quad N_1 - N_2^{ASP} ⠒ \mathbf{13}; \quad n_2 - n_2^{ASP} + 1 ⠒ \mathbf{13}; \quad Y_1 - Y_1^{ASP} - 1 ⠒ \mathbf{13}.$$

The well-known clan Kennedy is widely known for that its representatives pursues a chain of failures and tragedies. Dates of known representatives of the well-known clan it is abnormal are connected with Pushkin's dates.

Robert Kennedy (11/20/1925 - <u>6/6/</u>1968), brother J.Kennedy, the senator of the USA. After destruction of the brother he has headed a political clan Kennedy. He did not become the US president, probably because has died as a result of attempt *in 169th anniversary of a birth of Pushkin*. Phenomenal coincidence: $Y_2 - Y_1^{ASP} = \mathbf{13*13}; \quad n_2 - n_1^{ASP} ⠒ \mathbf{13*13}, \quad n_2 - n_1^{ASP} + 2 ⠒ \mathbf{13*13};$
$$Y_2 - Y_2^{ASP} = \mathbf{13}1; \quad N_1 - N_1^{ASP} ⠒ \mathbf{13}.$$

Kennedy as well as Pushkin were lost in the prime of life from bullets of murderers.

Lee Harvi Oswald (10/18/1939 – 11/24/1963), accused of murder of J.Kennedy – symbolical Dantes. Set of rather remarkable coincidence:

$N_1 - N_2^{GD} - 1 ⠒ \mathbf{13*13}, \quad N_2 - N_1^{GD} ⠒ \mathbf{13}.$

Osvald was born for 46642nd day after Dantes's birth:

$46642+2 = \mathbf{13*13*13}8*(-1+3)$.

As well as Dantes he came to Russia where too married the Russian woman.

J. Kennedy and Tereshkova's flight. In history of Pushkin duel the central place is occupied with women, sisters Goncharovs. J.Kennedy – the youngest in history of the USA the president and the hero of set of love novels. He was lost in a year of Tereshkova's flight. Tereshkova's dates and wives Dantes E.N.Goncharova (4/22/1809 – 10/15/1843) are connected:

$N - N_2^{\text{ENG}} + 1 = \mathbf{13*13}12*(-1+3)$.

M.N.Prusakova (was born 7/17/1941), the wife of Osvald – "Dantes", corresponds to Tereshkova. Coincidence to flight date: $N - N^{\text{MNP}} = \mathbf{667}*(\mathbf{13}-1)$.

The head of the first space programs of the USSR

L.I.Brezhnev (12/19/1906 – 11/10/1982) supervised the first space programs of the USSR. His name has been appropriated to "Star's town". To him the rank of the Hero of Socialist Work [5] has been appropriated. Conformity of dates of Brezhnev and Pushkin is remarkable:

$$N_2 - N_2^{\text{ASP}} + 1 \vdots \mathbf{13*13}, \; N_2 - N_2^{\text{ASP}} + 1 = \mathbf{13*13}65*1*3; \; n_1 - n_1^{\text{ASP}} - 1 \vdots \mathbf{13},$$
$$n_1 - n_2^{\text{ASP}} \vdots \mathbf{13}, \; n_2 - n_1^{\text{ASP}} - 1 \vdots \mathbf{13}, \; n_2 - n_2^{\text{ASP}} \vdots \mathbf{13}; \; Y_2 - Y_1^{\text{ASP}} - 1 \vdots \mathbf{13}.$$

Symbolical French-Russian flights in a year of Brezhnev's death

Last year of a life of Brezhnev (symbolical "Pushkin") is noted to a similar case of J.Kennedy: space flight was made by 2nd wom S.E.Savitskaya (symbolical wife Pushkin "N.N.Goncharova") and 1st French cosmonaut Jean-Lu Kreten (symbolical "Dantes"): $Y - Y_1^{\text{GD}} - 1 = \mathbf{13*13}$, $Y - Y_1^{\text{NNG}} - 1 = \mathbf{13*13}$.

Flight of Savitskaya has begun 8/19/1982. Corresponding informative coincidence for date of the culprit of Pushkin duel *of N.N.Goncharova* (9/8/1812 - 12/8/1863): $N - N_2^{\text{NNG}} + 1 = \mathbf{13*667}*(6+6-7)$.

1.14. Lunar expeditions – outstanding achievement of astronautics

12/24/1968 *"Apollo-8"* for the first time in history delivered the person to an orbit of the Moon [4-7]. Unique coincidence:

Pushkin: $N - N_2 \vdots \mathbf{13*13}$; $Y - Y_1 = \mathbf{13*13}$, $Y - Y_2 = \mathbf{13}1$.

Dantes: $N - N_2 - 1 = \mathbf{13*13}7*15$.

J. Kennedy: $N - N_2 \vdots \mathbf{13*13}$; $N - N_1 = \mathbf{18837} \vdots \mathbf{13}$.

D.Eisenhower: $N - N_1 = \mathbf{13*13*13*13}$, $Y - Y_1 \vdots \mathbf{13}$.

Ship creation «*Moon rover – 1*» (start 11/10/1970, work 11/17/1970 – 10/4/1971) was the answer of the USSR. Corresponding coincidence also has abnormal character:

Pushkin: $Y_1 - Y_1^{\text{ASP}} - 2 \vdots \mathbf{13*13}$.

Brezhnev: $n_1 - n_2^{\text{LIB}} \vdots \mathbf{13*13}$, $N_2 - N_1^{\text{LIB}} + 1 \vdots \mathbf{667}$, $N_2^{\text{LIB}} - N_3 + 1 \vdots \mathbf{13*13}$.

2. The Probability-theoretic and statistical analysis of anomaly

Probabilities of coincidence for one parametre. We assume, that dates of a life of people and events are casual and independent from each other. Accordingly random variables are parametres of dates X_j ($j = 1,2,3$):

$$\Delta N = |N - N_0|, \; \Delta n = |n - n_0|, \; \Delta Y = |Y - Y_0|,$$

where the index 0 corresponds to the "central" date.

Event A (*coincidence*) is frequency rate of parametre to considered code C: $A = X_j \vdots C$. Probabilities and characteristics of such events were investigated on the COMPUTER. It is proved, that events $\Delta N \vdots C$, $\Delta n \vdots C$, $\Delta Y \vdots C$ practically independent, and the probability of event $X_j \vdots C$ is equal $1/C$ [8-10].

Owing to independence of coincidence research of properties of dates is equivalent to sequence of independent tests (Bernully's scheme) [8-10].

Probabilities of coincidence for set of dates. For Pushkin's two dates and one investigated date there are 6 parametres ΔN_i, Δn_i, ΔY_i, $i = 1, 2$. Check of the informative properties for a number

of numerical codes from which the cores are codes 13^2, 666, 667 is carried out. The big codes of a kind 13^3, $13*13*13C_1C_2$ …, where C_1, C_2, … - decimal figures are considered also. For a code 13^2 checks for 6 parametres (with probability of exact coincidence $p_1 = 1/169$), and for other codes – for 4 parametres ΔN_i, ΔY_i, $i = 1, 2$ are carried out. The corresponding total probability for codes 666 and 667 is equal $p_2 \approx 2/666$.

For m dates it is carried out $6m$ checks for a code 13^2. The probability not less k coincidence with a margin error no more ε in the given series of checks is defined under the formula of binomial probabilities [8-10]:

$$P(6m, k, p) = C(6m, k) \, p^k q^{6m-k} + … + C(6m, 6m\text{-}1) \, p^{6m-1}q + C(6m, 6m) \, p^{6m},$$

$p = (2\varepsilon + 1) \, p_1$, $q = 1 − p$. For each of codes 666 and 667 it is carried out $4m$ checks. The corresponding probability is equal P $(4m, k, p)$, where $p = (2\varepsilon+1) \, p_2$.

As considered events are independent, the total probability is equal to product: P $(6m, k, (2\varepsilon + 1) \, p_1)$ P $(4m, k, (2\varepsilon + 1) \, p_2)$.

Probabilities of coincidence for one parametre and codes of a kind 13^3, $13*13*13C_1C_2$ … are accordingly equal: $1/2197 \ll 1$ and $1/780 \ll 1$.

Frequencies and probabilities of coincidence for various codes and that.

Detailed calculation is described in works [9, 10]. For a code 13^2 anomaly takes place. Excess of frequency of coincidence in comparison with norm much more unit. Corresponding probabilities there is less than unit. For codes 666 and 667 anomaly less obvious. Total value of probability:

P $\approx \underline{10^{-22} \ll 1}$, at $\varepsilon \le 1$; P $\approx \underline{10^{-21} \ll 1}$, at $\varepsilon \le 2$.

The given values of probability allow to assume confidently, that considered coincidence is not casual. For comparison it is expedient to notice, that in practice usually sufficient it is considered reliability 0,99 (probability of an error 0,01).

3. The reasons of anomaly and a theme of space contacts

K.E.Tsiolkovsky − the founder of theoretical astronautics. He confirmed about existence of reasonable creations unknown to a science which entered personally with him contact [3]. Data of the author allow to come to the same conclusion. The reason of considered anomaly is influence of space system ETA. This system possesses possibility of effective telecontrol by objects of the various nature. Nearby 1/7/1994 during scientific training of the author at university the cities of Kaiserslautern (Germany) system ETA has come into with him information contact. The city name (Kaiserslautern - *royal* residence) both date correspond to a surname and a date of birth of the main space designer *S.P.Korolev* (his surname is translated as *royal*): $N − N_1^{SPK} \vdots \mathbf{13*13}$.

Germany − the native land of great space designer *Verner fon Brown*, the contender of S.P.Korolev in space competition.

Date of the official invitation to training (4/20/1993) is connected with Pushkin's theme and theme of gravitation. This day -

70811th from the date of *Pushkin's* birth: $70811 \vdots \mathbf{13*13}$,

156745th from the date of a birth *Galilee*: $156745 \vdots \mathbf{667}$,

97175th from the date of *Newton's* death: $97175 \vdots \mathbf{13*13}$.

On training the unusual task to investigate the abnormal phenomenon was entrusted to the author. The telereporting of the South German TV from 10/5/1992 has been devoted this phenomenon. Experts of concern Ciba-Geigy have informed on existence of strong influence of static electric field on live objects in water (galvanic contact to water absolutely was absent). On opening the European patent has been declared. Authors have shown fantastic results of the method.

The paradox consisted in the following: static electric field cannot get into water volume (as well as in any spending body) because of effect of shielding. Authors of the patent could not explain an open phenomenon. The nature of miracle influence on live organisms in water remained obscure.

Soon the author has found out, that himself is object of foreign influence of the unknown nature. The extraneous internal voice has begun to sound, the state of health has sharply changed.

Originally the author could not believe, that space contact is come into with him. Therefore the author began to find out at university, whether irradiate with him any unknown beams. System ETA applies various ways of an information transfer to people. One of them is creation of abnormal historical regularities. "Centre" of coincidence for a theme of astronautics ETA has chosen Pushkin's dates.

The first outstanding contactor and his phenomenal coincidence

Socrat (470/469 - 399 BC), the founder of Ancient Greek philosophy – the first well-known contactor [4, 5]. The being contacting to him by means of an internal voice and some physical influences, has received in the literature the name « Socrat's demon». The philosopher in many respects followed instructions of the «demon». He has reflected the fact of its existence in the philosophical doctrine. Public worship to «demon» has served one of the reasons of execution of the philosopher.

System ETA has programmed unique coincidence on Pushkin's theme and the founder of the theory of gravitation Newton:

$$Y_1^{ASP} - Y_2 - 1 = \underline{\mathbf{13*13*13}}; \; Y_2^{IN} - Y_1 = \underline{\mathbf{13*13*13}}.$$

Similar coincidence can be only at one person from one million.

The first contactors from UFO

Arnold Kenneth (3/29/1915 - 1/16/1984), has informed the first on UFO (6/24/1947): $N_2 - N_1^{ASP} + 1 = \underline{\mathbf{13*13*13}}3*1*3$.

V.I.Akkuratov (5/1/1909 - 1/15/1993), the known pilot, has informed one of the first in the USSR on UFO: $N_2 - N_2^{ASP} \vdots \mathbf{13*13}$.

4. Gagarin – both "Pushkin", and "Dantes"

As it has been noted, system ETA possesses ample opportunities of telecontrol by people. ETA has organised space "duel" of the USSR and the USA and has co-ordinated it with a Pushkin theme. The first cosmonaut appears in two roles: both "Pushkin", and "Dantes": $N_1 - N_2^{GD} \vdots \mathbf{667}$, $Y_2 - Y_1^{ASP} = \mathbf{13*13}$.

System ETA explains the seeming contradiction so: in Pushkin duel by the winner there was Dantes, and lost - Pushkin. Gagarin was born as "Dantes" and has won the first space duel. The second (lunar) duel was won by Americans (item 1.9 see). The lunar program of the USSR has been closed. Gagarin was lost in a year of triumph of astronautics of the USA. He has lost the second duel already as "Pushkin".

5. Abnormal properties of data of the author

Pushkin theme. System ETA has co-ordinated dates of the author *simultaneously* and with astronautics history, and with a theme of great poet Pushkin.

The surname of the author (Nekrasov) also corresponds to a poetic theme. Dates of the author (was born 12/19/1962) and Pushkin it is remarkable are connected:

$$N - N_2^{ASP} = \underline{\mathbf{13*13*13}}6*(-1+3), \; N - N_1^{ASP} \vdots \mathbf{137}, \; n - n_2^{ASP} \vdots \mathbf{13}; \; n - n_1^{ASP} - 1 \vdots \mathbf{13}.$$

At the author, as well as at Pushkin - one brother and one sister. The brother of author D.A.Nekrasov (was born 8/1/1956), corresponds to the brother of poet L.S.Pushkin: $n - n_2^{LSP} - 1 \vdots \mathbf{13*13}$, $N - N_2^{LSP} - 1 \vdots \mathbf{13}$, $Y - Y_2^{LSP} \vdots \mathbf{13}$.

Sister of author R.A.Nekrasov (was born 9/16/1958) and sister of poet O.S.Pushkin: the interval between days of their birth consists of 58696 days:

$$58696 \vdots \mathbf{667}, \; Y - Y_2^{OSP} + 1 \vdots \mathbf{13}.$$

D.A.Nekrasov, nee *Dantes* - namesake G.Dantes, contender Pushkin on the well-known duel (rather rare name in Russia).

After leaving school on present time the author lives in the city of Novocherkassk where according to statements of Pushkin scholars, the poet has left on storage *legendary cosmology archive*.

Family of the author and astronautics theme

Family of the author it is long lived in area where the rocket range first in the USSR (*the cosmodrome Kapustin Jar*) is located. Coincidence of the author and his brother correspond to a theme of astronautics of the USSR and the USA.

D.A. and Gagarin's theme. D.A. was born near cities *Gagarin* in Uzbekistan (it is named in honour of J.A.Gagarin). D.A. has received after a birth a name Dantes. And J.A.Gagarin was born as symbolical "Dantes" (item 4 see). Flight of the cosmonaut has taken place for 1716 day of life D.A.:

1716=**13*****13**2.

D.A. has left school (as well as the author) in area where there is *a cosmodrome Kapustin Jar*. After he has moved to the city Engels nearest to a place of a landing of Gagarin. In a year of 200-year-old anniversary of Pushkin he has moved to a settlement vicinity Pushkino. D.A. and Gagarin have finished almost identical technical schools which are in the next cities. Gagarin has finished technical school (nowadays industrially-pedagogical college of his name) in the city of Saratov (3 km from the city Engels). D.A. has studied and worked in industrially-pedagogical technical school of the city Engels.

Analogy of tragical circumstances of the biography. Gagarin was lost at the age of 34 years at falling of his plane. On 33 year of life D.A. also has gone through tragical falling. 6/18/1989 for **13**th day after Pushkin's anniversary **190**th birthday with D.A. There was an accident - falling from the big height. D.A. has been rescued, but has got heavy traumas and physical inability.

The gravitation theme as it was above marked is sign for astronautics. Falling also are caused by gravitation action. Falling of D.A. has occurred for 126540th day after a birth of the founder of the theory of gravitation Newton:

126540 ⋮ **666**, n (18.06) = **13*****13**.

Especially remarkable circumstances. The last day 6/17/1989 was especial for a space-rocket theme: in the USA astronaut D.Griggs was lost, and in the USSR marshal V.F.Tolubko ordering Rocket Armies in 1972-85 has died.

D.Griggs was lost as well as Gagarin piloting the plane, and the space flight has begun also in day of astronautics *on April, 12th*.

V.F.Tolubko's dates (12 (25).07.1914 - 6/17/1989) are connected with dates and Dantes, and D.A.: $n_1 - n_1^{GD} - 1$ ⋮ **13*****13**; $N_2 - N^{DA} - 2$ ⋮ **667**.

Probabilities of coincidence as shows calculation, are rather small, that testifies to a nonrandomness of the given coincidence. In 1989 only one cosmonaut - D.Griggs all over the world has died. Leaving from a life of commanders of Rocket Armies - even more rare event (about time in 6 years). Hence, the probability is equal: P ≈ (3/365)*(3/365/6) ≈ 10^{-5} (1 chance from 100 000).

Coincidence on a theme of a family of Gagarin

A.I.Nekrasov (5/2/1935 - 3/9/1999), the father of the author and of D.A.

A.I.Gagarin (14 (27).03.1902 - 8/30/1973), the father of the first cosmonaut. At them the identical initials, and coincidence for their dates are remarkable: $N_2^{AI} - N_2 + 2$ ⋮ **666**, $N_2^{AI} - N_1 + 1 =$ **13*****13**62*(−1+3),

$$Y_2^{AI} - Y_2 ⋮ \mathbf{13}, N_1^{AI} - N_1 + 1 ⋮ \mathbf{13}, N_2 - N_1^{AI} + 1 ⋮ \mathbf{13}, N_2^{AI} - N_2 - 1 ⋮ \mathbf{13}.$$

A.I. is practically fellow countryman of Gagarin, was born one year later J.A.Gagarin in the next area. A.I. has died *on March, 9th*, in an anniversary of a birth of J.A.Gagarin (on the second native land of the cosmonaut, in the nearest to a place of its landing the city Engels). Coincidence for dates A.I. on J.A.Gagarin's theme: $n_1 - n_2^{AI}$ ⋮ **13*****13**, $Y_2^{AI} - Y_1$ ⋮ **13**, $Y_1^{AI} - Y_1 - 1$ ⋮ **13**.

Theme of the great poet and duel. A.I. has died in a year *of the 200 anniversary* from the date of Pushkin's birth.

The first cosmonaut of new Russia and a theme of France

A.J.Kaleri (was born 5/13/1956), the first cosmonaut of Russia. His first flight has begun 3/17/1992.

D.A. and Kaleri were born in the same year: $\underline{Y^{DA} = Y^{AJK}}$.

D.A. – nee Dantes, and dates Kaleri are connected with G.Dantes's dates:

$N - N_1^{GD} - 1 \vdots \mathbf{667}$.

D.A. and the beginning of flight Kaleri: $N - N^{DA} + 1 \vdots \mathbf{13*13}$.

The nonrandomness of coincidence confirms the following. At the final stage weeds together Kaleri compatriot G.Dantes, 3rd cosmonaut of France,

Michel Tonini (surname Kaleri sounds on French of manners) made. Planting to the Earth is carried out 8/10/1992. This date is connected with G.Dantes's date:

$N - N_1^{GD} + 2 \vdots \mathbf{666}$.

Flight M.Tonini has begun 7/27/1992. Coincidence to Pushkin's date:

$n - n_2^{ASP} + 2 \vdots \mathbf{13*13}$.

Theme of women-cosmonauts

Sister of the author R.A. until now lives in area of an arrangement of the first Soviet rocket range Kapustin Jar.

E. V.Kondakova (was born 3/30/1957) – the first of women of new Russia, visited space. She only for a year is more senior R.A., and their dates in appropriate way are connected: $n^{RA} - n^{EVK} - 1 \vdots \mathbf{13*13}$, $\underline{Y^{RA} - Y^{EVK} = 1}$.

S.Kristen-Ride - the first woman-astronaut of the USA (item 1.12 see).

Coincidence for dates of R.A. and S.Kristen-Ride: $N^{RA} - N^{SKR} - 2 \vdots \mathbf{667}$.

The author and an astronautics theme

The initials of author N.S.A. correspond to an abbreviation of the largest space agency NASA. The abnormal quantity of coincidence to dates of priority events of history of astronautics of the USA takes place:

The first artificial satellite «*Explorer-1*»: $N^{SA} - N - 1 = \mathbf{13*13}7$.

The first artificial satellite of the moon «*Lunar-Orbiter-1*»:

$N - N^{CA} - 1 = \mathbf{666}*(-1+3)$, $N - N^{SA} + 1 = \mathbf{667}*(-1+3)$.

The first mars rover «*Sojourner*»: $n^{SA} - n + 1 = \mathbf{13*13}$.

First interplanetary device "Pioneer-1": $N^{SA} - N + 1 = \mathbf{13*13}*(6+6-6)$.

The first exit for limits of Solar system "Pioneer-10" (flight of Jupiter):

$N^{SA} - N - 1 = \mathbf{667}*(6+6-6)$.

The first orbital flight has been made in a year of a birth of the author: $\underline{Y^{SA} = Y}$ (weather has prevented to make flight 12/20/1961: $n - n^{SA} - 1 \vdots \mathbf{13*13}$).

Outstanding achievement of astronautics are lunar expeditions and piloted flights to the Moon (phenomenal coincidence in item 1.14 see). For dates of the author of coincidence on the given theme also are considerable.

The first exit into an orbit of the Moon of the piloted ship:

$$N - N^{SA} = \underline{\mathbf{13*13*13}}.$$

William Anders (was born 10/17/1933), the pilot of the ship "Apollo-8":

$N^{SA} - N + 1 \vdots \mathbf{666}$.

In honour of Anders the crater on the Moon is named. Additional remarkable circumstances. It is rather unusual, that the astronaut was born not in the USA, and in Hong Kong (China). The author was born also in the east. Places of births are practically on one longitude (114° of east longitude).

Other feature: Anders by origin the Pole (as well as the author - the Slav). The Polish theme in the biography of the author is considerable. The author has ended Novocherkassk polytechnical institute (NPI) in which works until now. NPI is created on the basis of the Polish high school, *the Warsaw polytechnical institute*. It is high school has been evacuated to provincial Novocherkassk. Date of basis NPI 10/18/1907 is connected with date of the astronaut of the Polish origin of Anders:

$n - n^{WA} - 1 \vdots \mathbf{13*13}$, $Y^{WA} - Y \vdots \mathbf{13}$.

Practical *coincidence of birthdays* of Anders and NPI is remarkable: on October, 17th and on October, 18th. On the basis of NPI the known Don space centre has been created.

In the city Novocherkassk (according to statements of Pushkin scholars) the poet has left on storage legendary cosmology archive.

Coincidence of the author on a theme of outstanding contactors

A.Kenneth (3/29/1915 - 1/16/1984), has informed the first mass-media on UFO supervision: $n^{SA} - n_2 + 1 \vdots \mathbf{13*13}$, $N^{SA} - N_1 + 1 = \mathbf{13*13}41$.

V.I.Akkuratov (5/1/1909 - 1/15/1993), the pilot, has informed one of the first in the USSR on UFO: $N_2 - N^{SA} = \underline{\mathbf{13*13*13}}*(6+6-7)$, $n^{SA} - n_2 \vdots \mathbf{13*13}$.

Coincidence for date of the first contact

E. P.Blavatskaya ((31.07) 8/12/1831 - 5/8/1891), the world famous foundress teosophy movement and spiritists societies (contactors):

$N_K^{SA} - N_1 = \underline{\mathbf{13*13*13}}*1*3*1*3*1*3$.

K.E.Tsiolkovsky (9/5(17)/1857 - 9/19/1935), the founder of space philosophy, the contactor [3,4]: $N_K^{SA} - N_2 - 1 \vdots \mathbf{13*13}$.

V.G.Azhazha (was born 11/7/1927), the president of the Russian society of ufologists, in 6/14/2000 to him has been granted the patent of the United Nations for opening of aliens: $N_K^{SA} - N - 1 \vdots \underline{\mathbf{13*13*13}}$.

Probability of coincidence for dates of the author

In item 5 only 25 dates concern a theme of the author. 50 checks on coincidence for the big codes are accordingly carried out. The probability of exact triple coincidence is equal 1/2197. Hence, excess of frequency of coincidence equally $3*2197/50 \approx 132 >> 1$.

One triple coincidence has the perfect form. The probability of this coincidence is approximately equal $13^{-4} \approx 3,5*10^{-5}$.

For a Pushkin theme exact coincidence for a code $\mathbf{13*13*13}C_1C_2$, its probability 2/780 takes place. Frequency of a surname Nekrasov is equal nearby 1/2000 (a surname Pushkin meets extremely seldom). Hence, similar coincidence meets on the average 1 time on 780 000 persons.

The name of brother Dantes in Russia is exclusively rare. It is possible to conclude, that the probability of similar coincidence *is smallest*. Thus, it is possible to draw a conclusion on not casual nature of coincidence confidently.

Conclusions

In article dates of history of rocket technics and astronautics are investigated. The research method is based on the statistical analysis of chronological data by means of parametrization of dates of events and check of the corresponding informative properties.

The phenomenon of steady correlation of dates of the major events of history of astronautics with Pushkin's dates takes place. It will be co-ordinated with remarkable conformity of his surname to a theme of artillery, the related rocket technics. Coincidence has character of law, and the probability of their casual occurrence *is rather small*.

The phenomenon reason is influence of space system ETA. Chronological anomaly is special way of an information transfer space systems. Results of research confirm ideas of the founder of space philosophy K.E.Tsiolkovsky.

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УДК 519.72: 681.3 (0.75.8)

Методы передачи информации космических систем

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Аннотация. В статье описана и исследована методами математической статистики хронологическая аномалия космонавтики. Изложены данные, свидетельствующие о космическом происхождении описанных аномалий.

Ключевые слова: космонавтика; хронология; статистика; закономерность.