

Whether Comet Lulin would Energize the Foci of Comet Hale-Bopp?

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Preface

The trajectory of comet **Lulin (C/2007 N3)** [1, 2] shows many peculiarities when co-related with the Earth.

Moreover, its critical points (CP) that specify the peculiar configurations being constituted by this comet, Sun, and Earth coincide with that of the comet **Hale Bopp (HB)**, namely – with the HB’s Foci [3] which, in factors of influence, time, and Ecliptic longitude, reflect those specific configurations that were formed by this comet, Sun, and Earth in 1997.

As far as these Foci were defined with respect to the position of the Sun, it was presumed and verified [3, 4] that they remained effectual on the yearly basis, viz. at the same dates of the subsequent years when the Sun passed the focal longitudes.

Furthermore, it was shown [4] that even much lesser comets were effectual when their critical points coincided with the HB’s Foci and/or critical points of HB’s trajectory [5]. Note to this end, that if in the preceding years, since 1997, these trajectories made crosses on the Celestial Sphere, this time the comet Lulin, so to speak, sums up the 12 year prehistory of these Foci since its trajectory makes a “perfect” Zodiacal circle with the Origin at the Vernal point (viz. $0^\circ \Upsilon$ of the Tropical Zodiac, TZ [6]) which is important from physical viewpoint [7] and presents the comet HB’s Focus T4 being very important this year [3].

So, consider these Lulin/HB correlations in more detail.

1. THE FOCI OF THE COMET HB

For convenience, the HB’s Foci are presented in Table 1. They are specified by time and Ecliptic longitude of the respective event; first of all – by Sun and comet HB conjunctions (denoted by SUN/HB), HB’s perigee, important Eclipses (ECL) associated with the comet HB’s position, and some other events pertaining to the comet HB (Etc.). The exact moments of time may be found in [4]: for the purpose of this work it is enough to know the dates, which are valid on an annual basis.

So, an *HB’s Focus T_i is energized* (as in resonance) if some other Cosmic event (to which the HB’s factors of influence [3, 4] may be attributed) takes place at respective *Date D_i or Longitude λ_i* .

Table 1. Dates and Longitudes of the Comet HB’s Foci

Focus, T_i	Date, D_i	Longitude, λ_i	Event defining T_i	Associate Focus
T1	December 21	$0^\circ \Upsilon$	Sun enters Υ , Etc.	
T2	January 3	$12 \Upsilon 59$	SUN/HB	
T3	March 3	$13 \Upsilon 21$	SUN/HB	
T4	March 20	$0^\circ \Upsilon$	HB’s Perigee, Sun enters Υ	T8 , March 13; ECL
T5	March 24	$3 \Upsilon/\Omega 35$	ECL	
TB	April 7 – 11		Etc.	
T6	July 4	$12 \Omega 55$	SUN/HB	T6’ , July 14
T7	September 16	$23 \Upsilon/\Upsilon 56$	ECL	

Notice. One of the most important critical points of the USA is $12 \Omega 44$ which is affected by T2 and T6 [3, 8]

2. CRITICAL POINTS OF THE COMET LULIN

1. Orbital plane. The orbital plane of the comet Lulin practically coincides with that of the Earth, that is with the plane of Ecliptic: the Ecliptic Latitude of the comet does not exceed 1° and, in average, varies from 0° to $\pm 0.5^\circ$. This means that on the Celestial Sphere this comet moves almost exactly along the circle of Ecliptic and, thus, its Ecliptic Longitude exhaustively describes its spatial position in the Celestial Sphere, not only in **Tropical Zodiac** [6].

Moreover, the **orbits** of **Earth** and comet **Lulin** are allocated quite *symmetrically* since their points of perihelion are disposed almost on the same line, and what is more their motions are *synchronized* since in 2009 they pass their perihelia almost simultaneously (See critical point **PH**, Table 2).

The difference is that the **comet** moves along the Ecliptic in the *counterclockwise* fashion (until the Critical Point **PD**), while the Earth's motion is clockwise.

2. Point of Origination. The comet Lulin approaches the Sun from the point in the Celestial Sphere that coincides with the *Vernal point* ($0^\circ \Upsilon$) of the Tropical Zodiac (TZ) with the Celestial Longitude $\lambda = 0$ and Latitude $\beta = 0$ which presents a specific point just for the Earth. Until 1996 it was "fluctuating" within a close vicinity of this Origin of the TZ (several degrees of Longitude, up to $\pm 0.5^\circ$ of Latitude); that year it was Neptune-distant from the Sun.

3. Near-earth fly over. But in 1997, the year when the **comet Hale-Bopp (HB)** was passing in the closest vicinity of the Earth and Sun thus manifesting its power for the first time, the comet Lulin had started its distinct counterclockwise motion along the Ecliptic with a slowly increasing rate until *January* of 2009 when at a Longitude about 240° (viz. at the separation point between 0°♁ and 30°♈), near the point of its and Earth's *Perihelia*, as in a point of bifurcation, it started to move *extremely quickly*: in several months it should pass 150° in comparison to 120° over more than 12 years.

After this first quarter fly over, the comet's position *stabilizes* around 10°♄ in the beginning of *April* of 2009, as quickly as it increased its rate in January, and *firstly* changes its Retrograde (viz. counterclockwise) motion to the Direct (viz. *clockwise*). Since then, it would move away from the Sun as slowly as it was approaching.

Therefore, we can definitely specify the following three Critical Points in the trajectory of the comet Lulin which are specific to the Earth:

PO – the point of **Origination**: Longitude $0^\circ \Upsilon$, focal time is indefinite;

PH – the point of **Perihelion** is specified by the Perihelion and *sharp increase in comet's rate* during the first week of January; therefore it has approximate Longitude 240° and Time – January 10;

PG – the point of **Perigee**, in its turn, unites a cluster of 3 important events (thus three dates and Longitudes):

PG1 – comet Lulin (at Longitude 0°♁) opposes point **PO**;

PG2 – comet Lulin is in Perigee;

PG3 – comet Lulin opposes Sun;

Energetically, the following critical points of the comet Lulin could be less powerful:

PS – this point is specified by *sharp decrease in comet's rate* and relative *stabilization of its Longitude*; therefore it has approximate Longitude 100° (10°♄) and Time – first week of April;

PD – the point where comet Lulin becomes **Direct**;

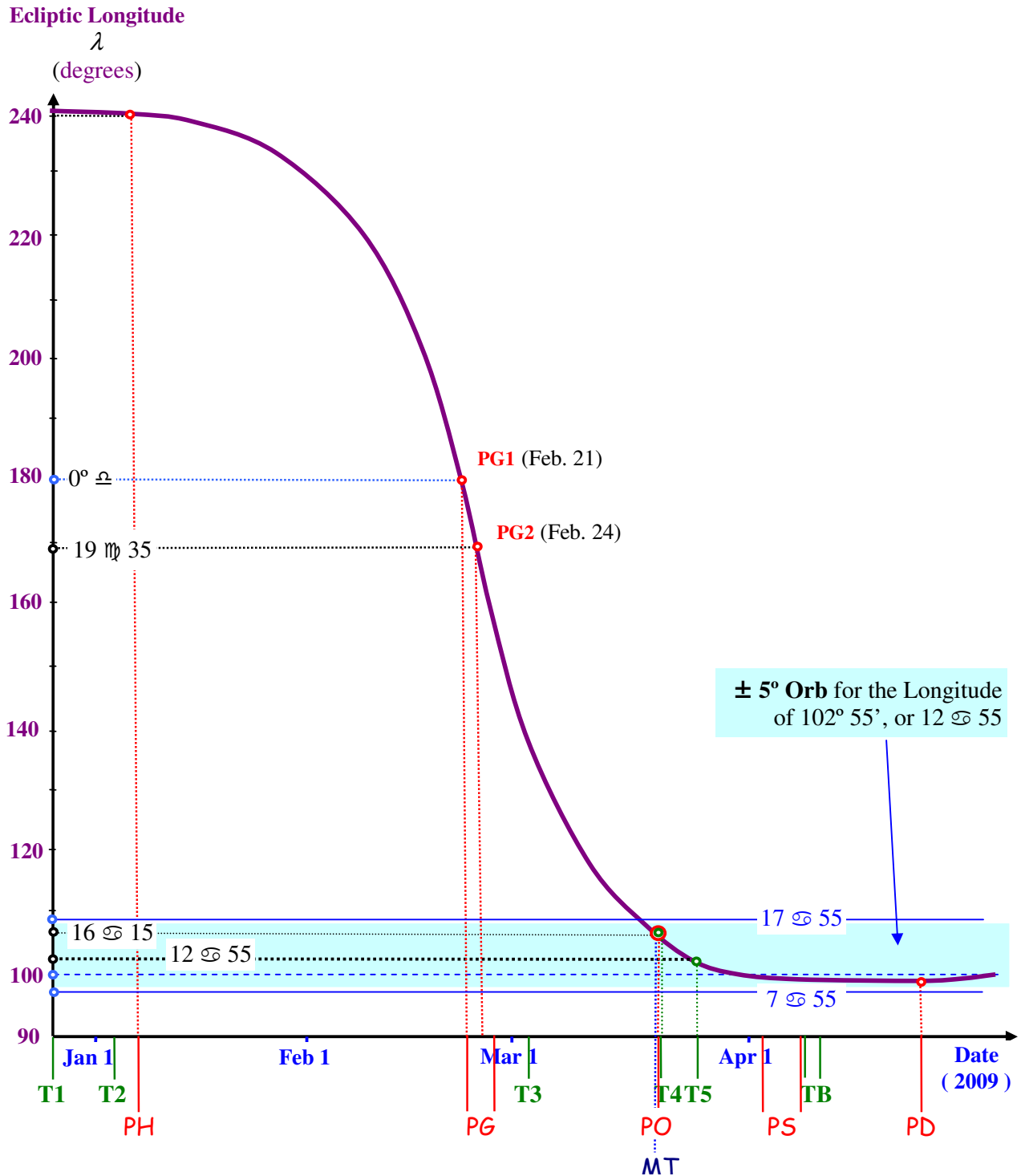
PL – comet Lulin gets out of 5° orb of the comet HB's Foci T2, T6.

With more details these Critical Points and their correlations with the Foci of the comet Hale-Bopp are considered in Table 2 and Diagram.

Table 2. Critical Points of the Comet Lulin and their Correlatives, including the Comet HB's Foci

Comet Lulin Critical Point	Date of 2009	Comet Lulin's Longitude	Event(s) and Correlation(s)
PH	January 10	240° (0°♏ or 30°♐)	Perihelion of comet Lulin, Sharp increase in comet's rate (Jan 1 – 10); Correlations: Perihelion of Earth (Jan 4 for 2009); HB's Focus T2 (Jan. 3)
PG	February 21	0° ♄	PG1: Comet Lulin <i>opposes</i> the point of Origination PO
	February 24	19 ♃ 43	PG2: Perigee of comet Lulin (this comet, Earth and Sun are almost aligned in the plane of Ecliptic) Correlations: Feb. 23: Lulin <i>opposes</i> Uranus (21 ♃/♅ 38) Feb. 24: Lulin <i>conjuncts</i> Saturn (19 ♃ 23) Lulin <i>enters</i> 5-day orb of HB's Focus T3 Feb. 25: New Moon (6 ♃/♅ 35)
	February 26	7 ♃ 51	PG3: Comet Lulin <i>opposes</i> Sun (viz. <i>spatial</i> , not only Zodiacal, alignment of the comet, Earth and Sun) Correlation: Lulin <i>leaves</i> 5-day orb of HB's Focus T3 (March 3)
PO	March 20	16 ♄ 24	Sun passes the comet Lulin's Point of Origination PO Correlations: HB's Focus T4 (March 20); Mayan Calendar Golden Section Bifurcation Point MT (March 20, 2009) [3]; Comet Lulin <i>enters</i> the 3° longitudinal orb of comet HB's Foci T2 and T6
	March 25	12 ♄ 55	At HB's annual Focus T4 (March 24) the comet Lulin <i>opposes</i> and <i>conjuncts</i> the following Longitudinal HB's annual Foci: T2 (12 ♃ 59) T6 (12 ♄ 55)
PS	April 1 – 7	10 ♄	At HB's annual Focus TB (April 7 – 11) comet Lulin, while remaining within an orb of 5° orb of the foci T2 and T6, <i>sharply decreases</i> its Longitudinal motion
PD	April 24	8 ♄	The <i>retrograde</i> motion of the comet Lulin is firstly changed (in Geocentric System) to <i>Direct</i>
	June 15	12 ♄ 55	Comet Lulin repeats the situation of March 25
	July 4	14 ♄	While passing the HB's Focus T6 (July 4), with an orb of 1° the comet Lulin <i>repeats</i> the situation of March 25
PL	September 16	18 ♄ 45	At this HB's Focus T7, Lulin <i>leaves</i> 5° longitudinal orb of Foci T2 and T6 where it resides since PO (Mach 20)

Diagram. Critical Points of the Comet Lulin and their Correlatives, including the Comet HB's Foci



Notes to Diagram.

1. The comet HB's Foci T6 (July 4) and T7 (September 16) are not shown
2. The Diagram should not be used for measurements
3. Colours in this Diagram correspond to denotations in Table 2.

3. CONCLUSION

If the comet Lulin is actually energetic enough and has excited manifestations at the comet Hale-Bopp's Focus T2 (around January 3, 2009) [3], we may suppose that due to the specified series of synchronisms between its Critical Points and Foci of the comet Hale-Bopp, it may also:

- **energize the manifestations of the forthcoming HB's Foci in 2009** in addition to those factors that were described in [3];
- **show its own character** at the Critical Point PG (Feb. 21 - 26), before the HB's Focus T3 (March 3).
- exert an **increased influence** on the **USA, especially** where the HB's Foci T2 and T6 are concerned.

4. ACKNOWLEDGEMENTS

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Notes. Since in some Word programs the special symbols may be changed, their names are given with respect to their use in this work:

♈	–	Aries	♎	–	Libra
♉	–	Taurus	♏	–	Scorpio
♊	–	Gemini	♐	–	Sagittarius
♋	–	Cancer	♑	–	Capricorn
♌	–	Leo	♒	–	Aquarius
♍	–	Virgo	♓	–	Pisces

Denotation 12 ♋ 55 means 12° 55' of Cancer, or Ecliptic Longitude 102° 55'.

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