

New Discoveries Concerning High Velocities in the Universe, 2026

A: The Velocity of the Earth in the Universe

B: Speeds Exceeding the Speed of Light and Their Ultimate Limit

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A: The Velocity of the Earth in the Universe

In previous texts, we addressed the calculation of the physical parameters of the universe throughout one complete cycle—from one Big Bang to the next (encompassing the inception of the Big Bang, the present era, the midpoint of forward path, the end of cosmic expansion, and the moment immediately preceding the subsequent next Big Bang). The results of these calculations can be observed in the table below:

| Parameter | Symbol | Big Bang Moment | End of Inflation | Equality of Rotational and Linear Energy | Present | End of Expansion |
|---------------------------------|----------|------------------------|-----------------------|--|------------------------|----------------------|
| Time (Byr) | t | 0 | 0 | 8.47 | 13.7 | 28.5 |
| Time (s) | t | 0 | 3×10^{-4} | 2.67×10^{17} | 4.32×10^{17} | 9×10^{17} |
| Radius From Center (m) | r | 10^7 | 1.35×10^{25} | 1.39×10^{46} | 1.48×10^{46} | 2×10^{46} |
| Linear Speed (m/s) | v_l | 4.5×10^{28} | 4.5×10^{28} | 3.16×10^{28} | 2.96×10^{28} | 0 |
| Tangential Speed (m/s) | v_r | 2.27×10^{-11} | 3.06×10^7 | 3.16×10^{28} | 3.35×10^{28} | 4.5×10^{28} |
| Linear Energy (J) | E_l | 10^{110} | 10^{110} | 5×10^{109} | 4.38×10^{109} | 0 |
| Rotational Energy (J) | E_r | 2.58×10^{31} | 4.7×10^{67} | 5×10^{109} | 5.62×10^{109} | 10^{110} |
| Angle (°) | θ | 0 | 1.3E-16 | 35 | 59 | 119 |
| Linear Acceleration (m/s^2) | a_l | -5×10^{10} | | | | |

B: Speeds Exceeding the Speed of Light and Their Ultimate Limit

Based on the results presented in the table in Part A, it is readily apparent that the sphere inhabited by living beings is capable of travelling at velocities thousands or even millions of times faster than the speed of light. Indeed, it can be argued that an unlimited speed is inconceivable; therefore, it can be concluded that one could traverse from one side of the universe to the other in the blink of an eye!



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