

# Very Very Short Demonstration that the Expansion of the Universe is Decelerating

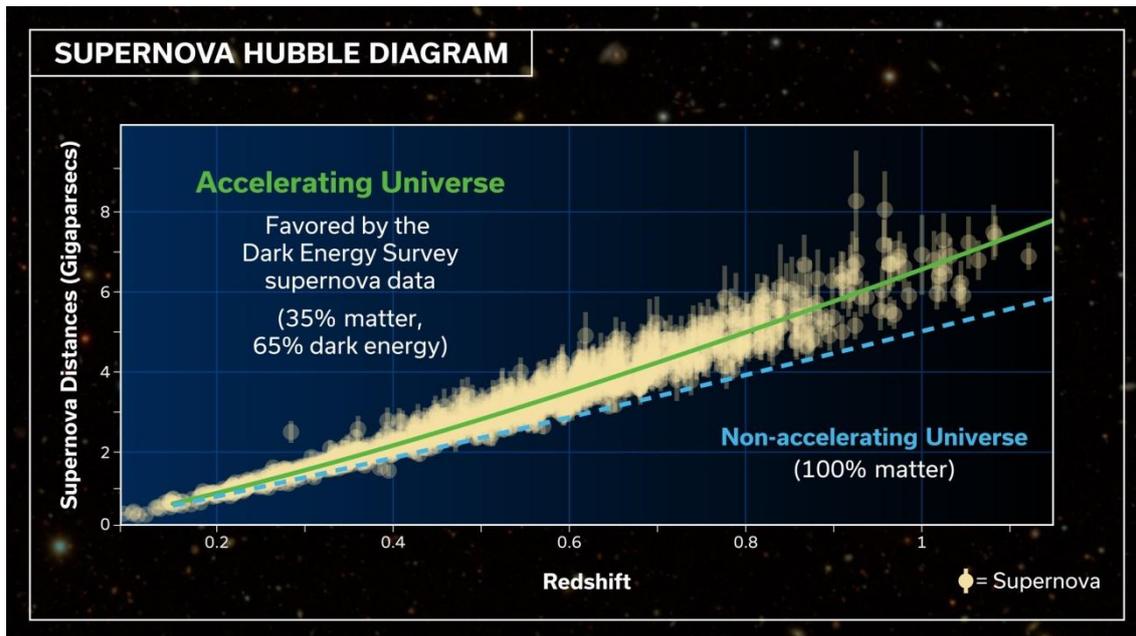
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## Abstract

Demonstration that the expansion of the Universe is decelerating, through the luminosity distance of supernovae.

## Demonstration



According to the scientific community, redshift indicates the scale factor of the expansion of the Universe, but if this were the case, the distance of celestial objects would increase exactly proportionally to their redshift (5 times). However, as can be seen from the graph, it increases more than proportionally, thus demonstrating that redshift does not indicate the scale factor.

Redshift, instead, indicates the current speed of Earth's moving away from the source. Therefore, the fact that the distance is increasing more than proportionally, demonstrates that in the past this speed was greater than it is now and, therefore, that the speed of expansion of the Universe is decelerating.

## Reference

The Real Universe

<https://www.therealuniverse.eu/>