The Constantly Changing Hubble Constant

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Find the presentation at https://tinyurl.com/bycke8v6

Interactive content

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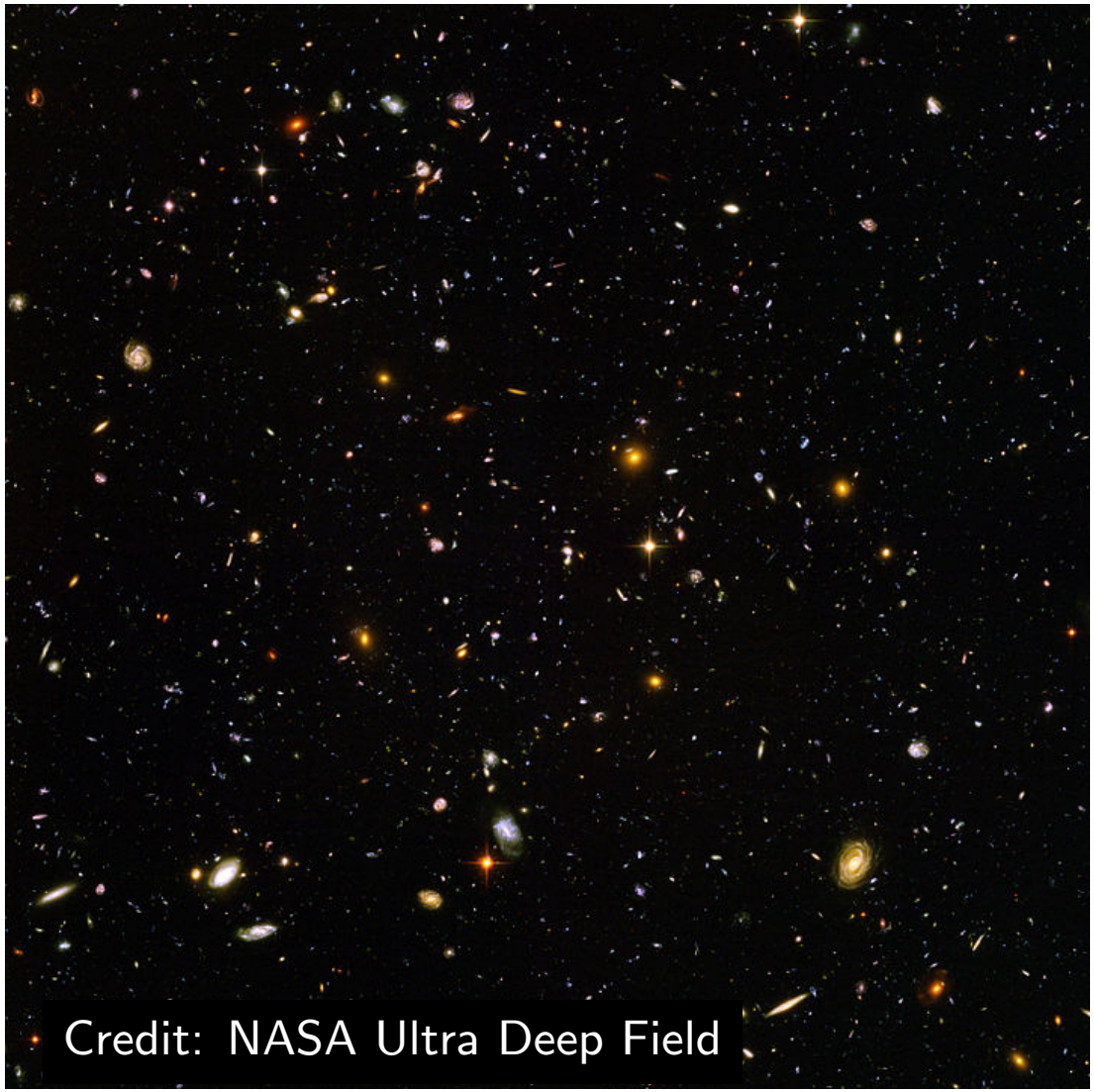
The Universe is expanding!

- But what does this actually mean?
- How do we know it is expanding?
- Why is it expanding?
- How fast is it expanding?
- Are cosmologists completely realistic about the uncertainties in their results?

How do we know?

- Everywhere we look, distant galaxies are receeding; more distant galaxies are receeding faster
- So either we are at the centre of a cosmic conspiracy, or all the space between all the galaxies is expanding.



Is the solar system expanding? Are *we* expanding?

Go to `www.menti.com` (code 9850 5737) and choose one possibility:

1. Yes, a lot
2. Yes, but only a tiny amount
3. No

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1. Yes, a lot
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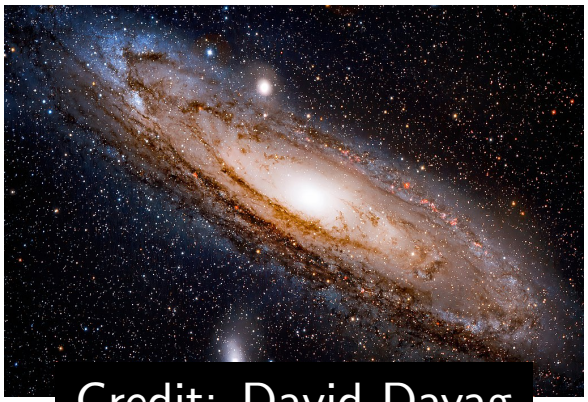
Is the solar system expanding? Are *we* expanding?

- Other forces - molecular forces between the molecules in your body, and gravitational forces between the Sun and the planets - are far more than strong enough to overcome the effect of cosmic expansion.
  - Gravity is even strong enough to keep the Andromeda Galaxy from receeding from us.



Credit: David Dayag

- It's only the furthest objects - where gravity becomes negligible - that receed.

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