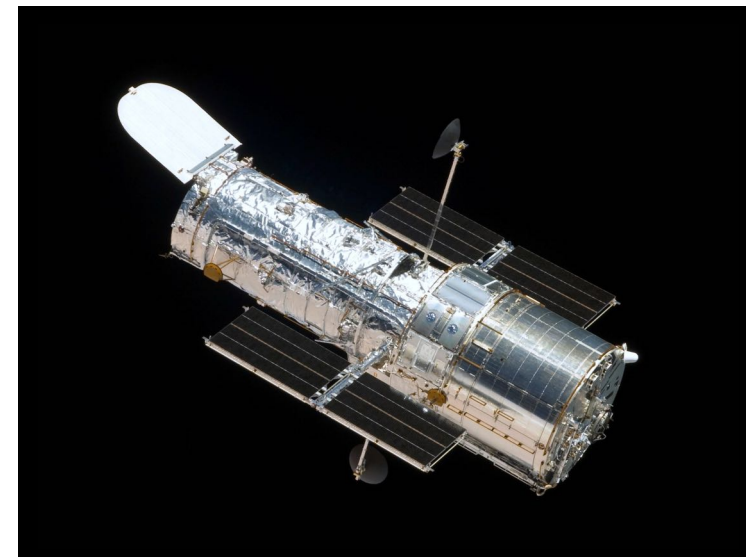
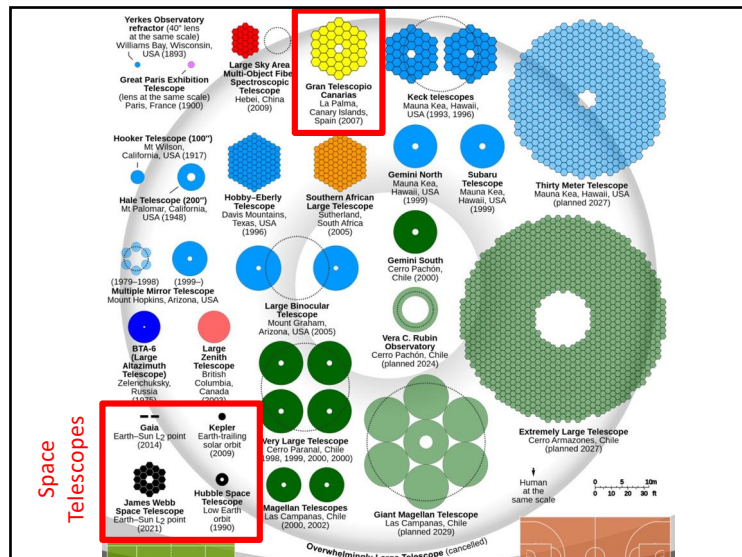
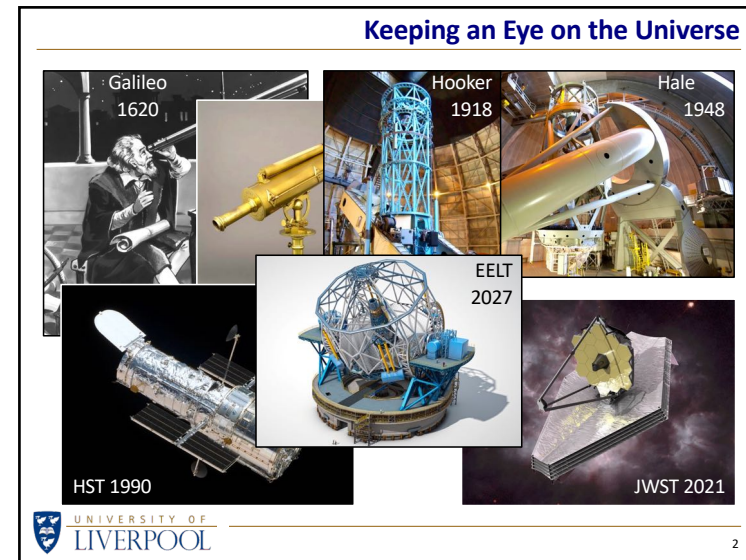
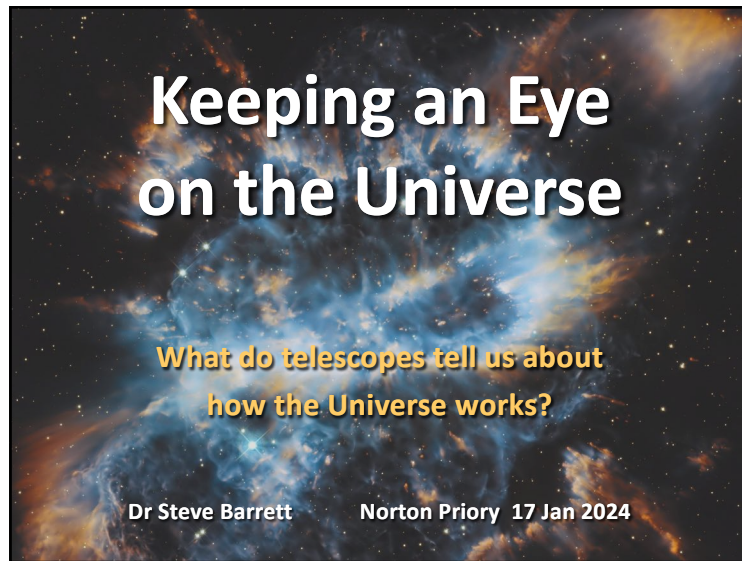
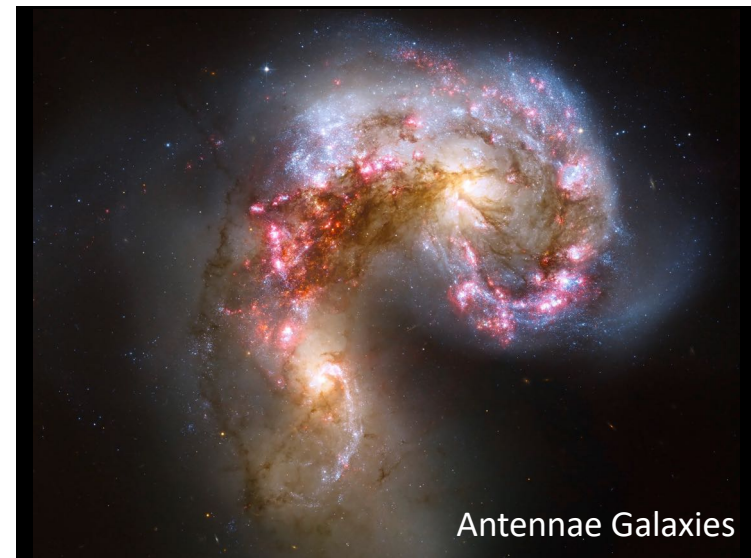
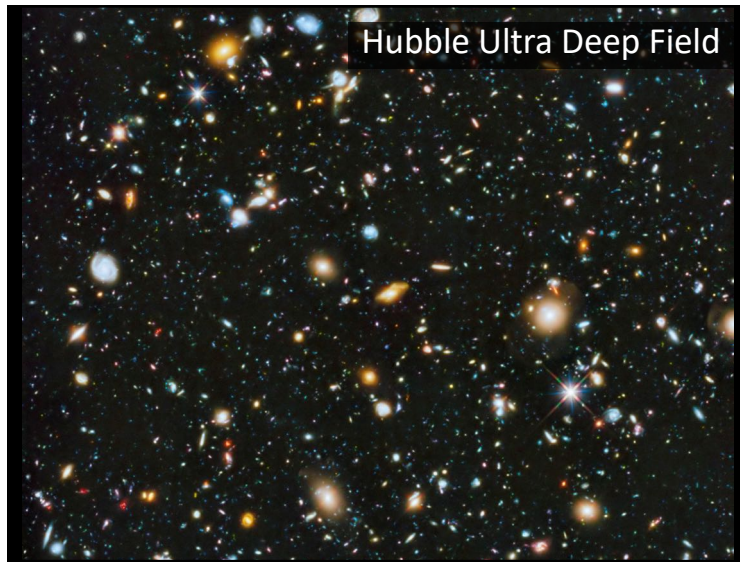


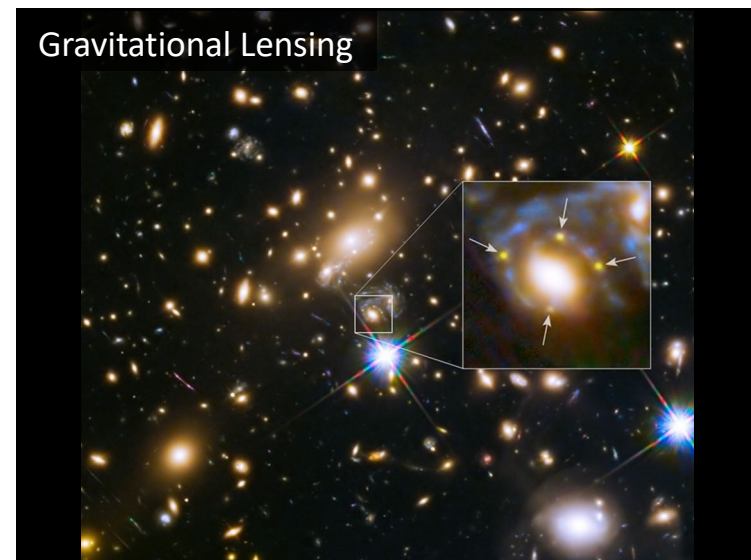
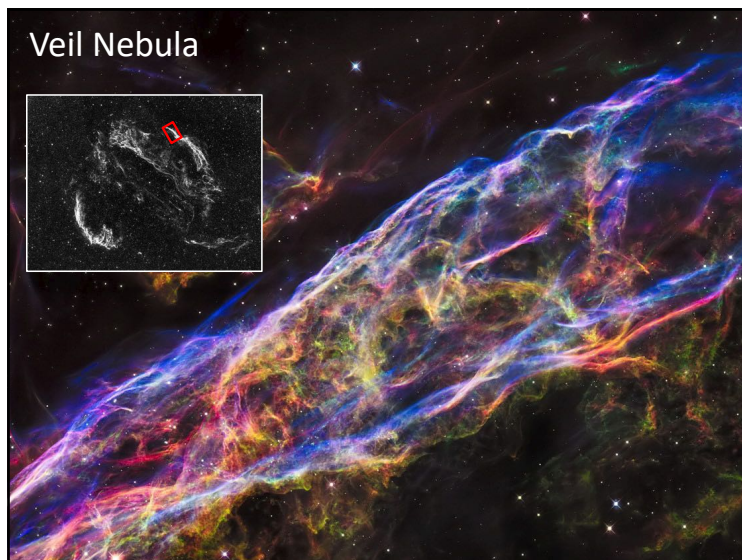
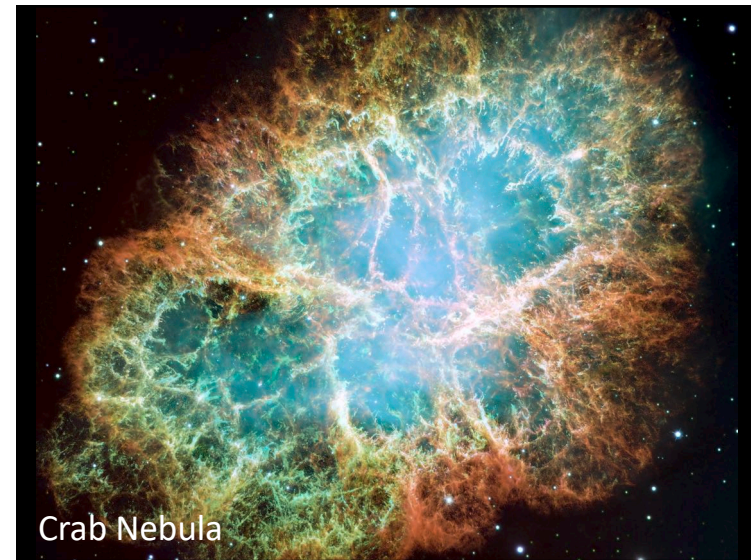
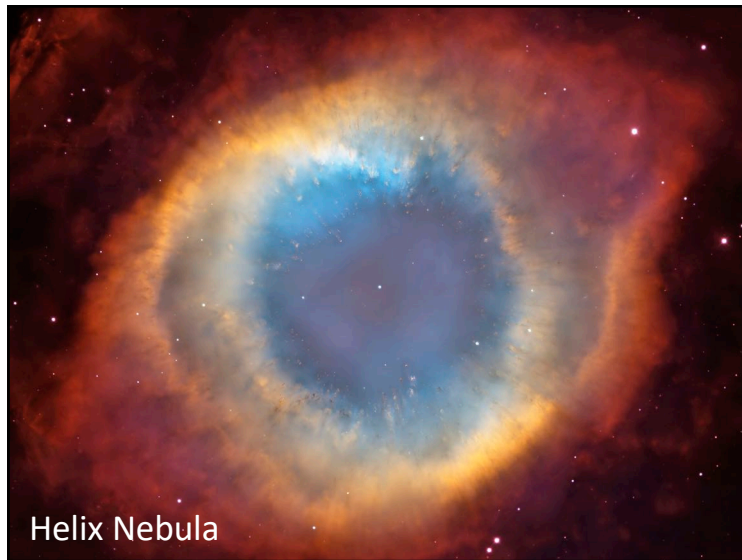
Keeping an Eye on the Universe



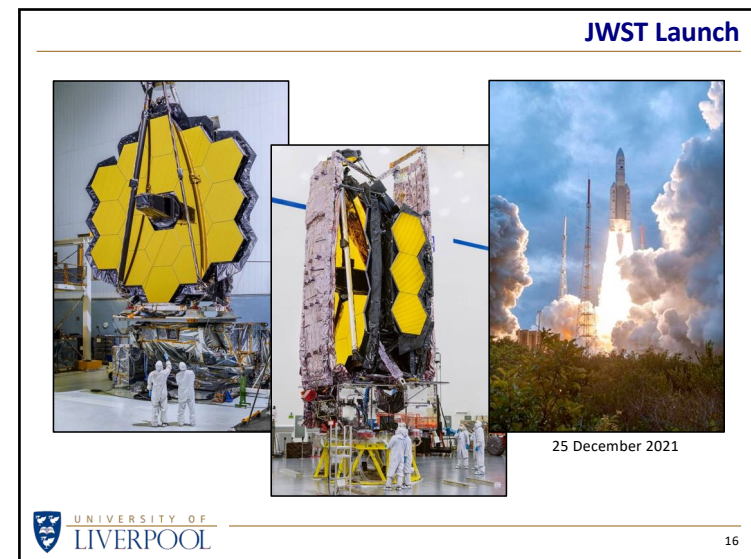
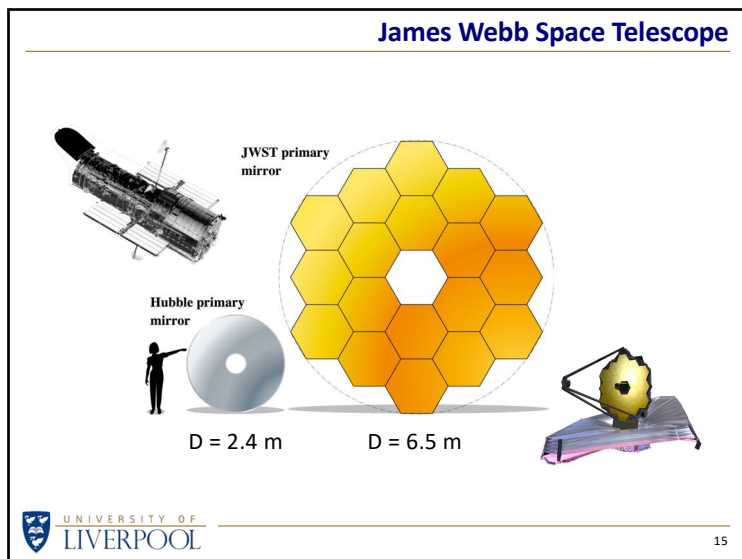
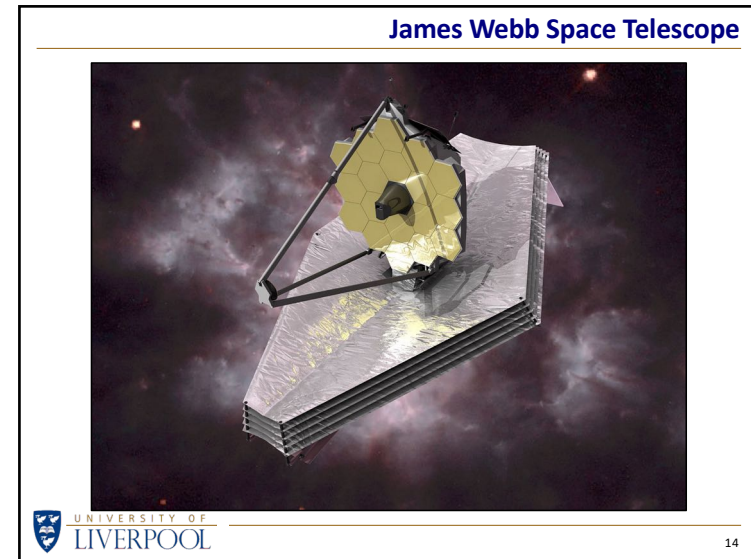
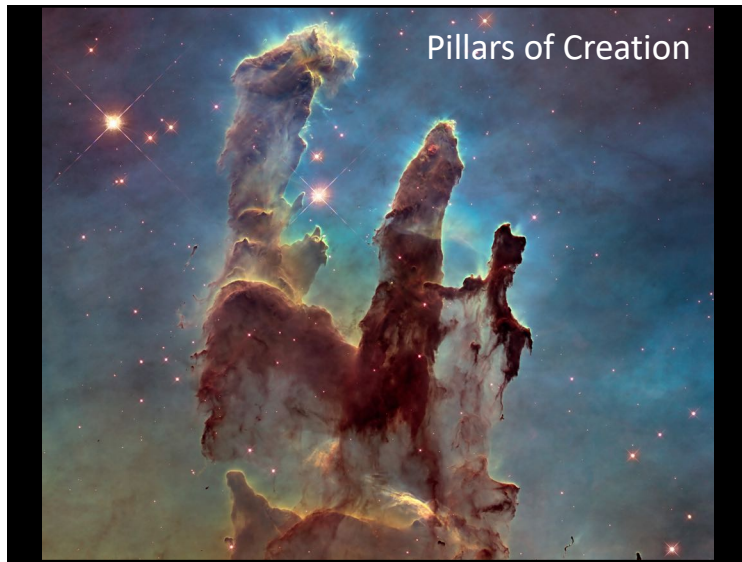
Keeping an Eye on the Universe



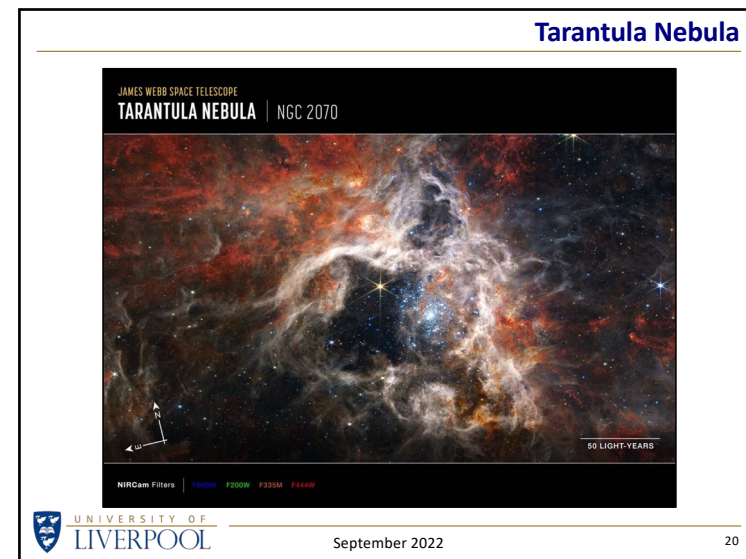
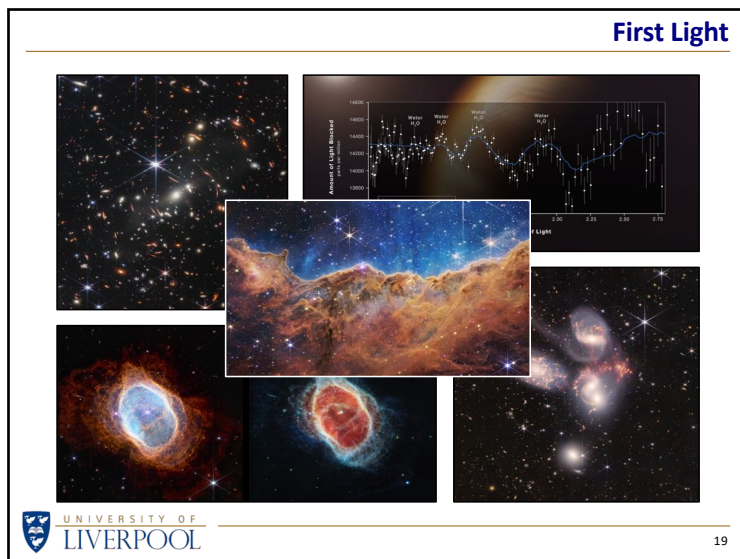
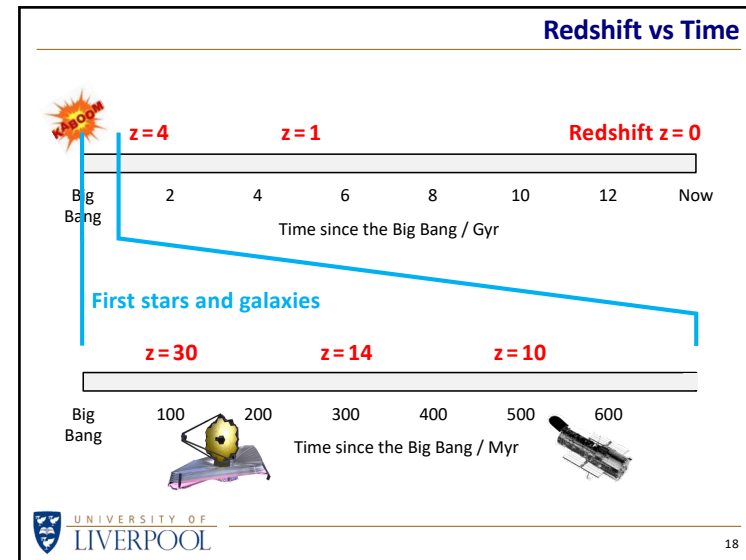
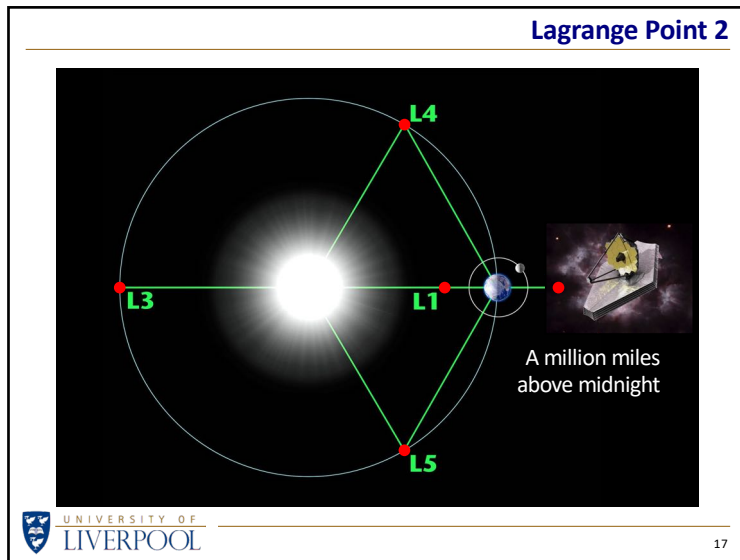
Keeping an Eye on the Universe



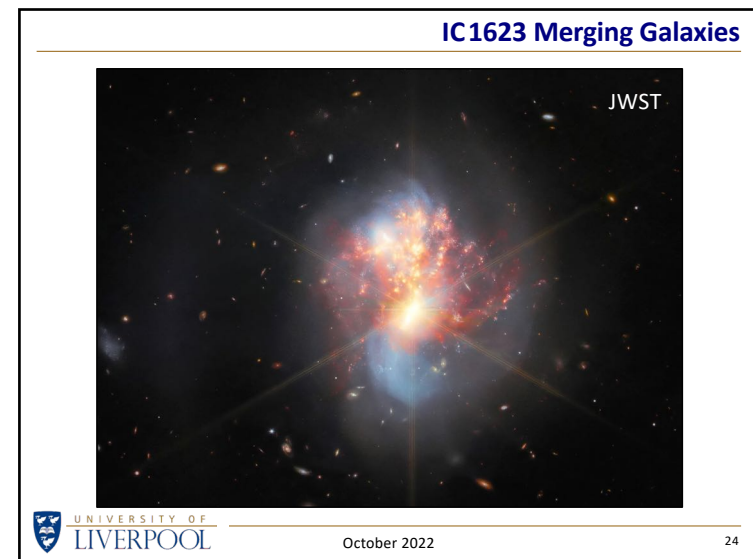
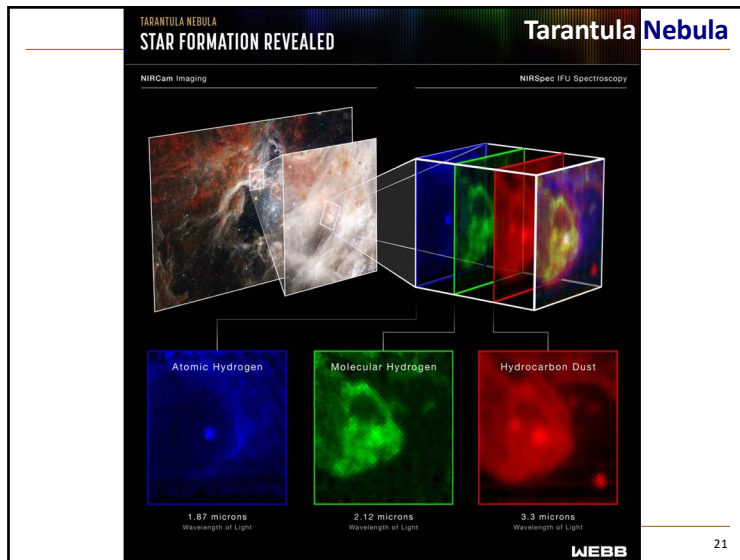
Keeping an Eye on the Universe



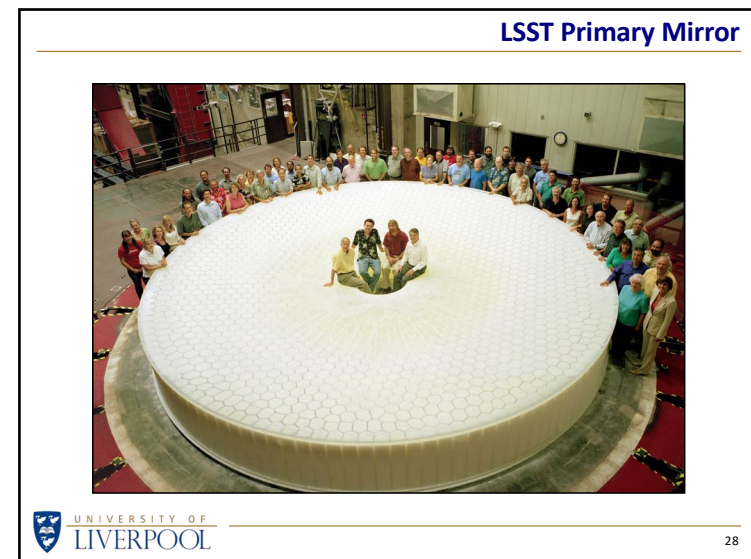
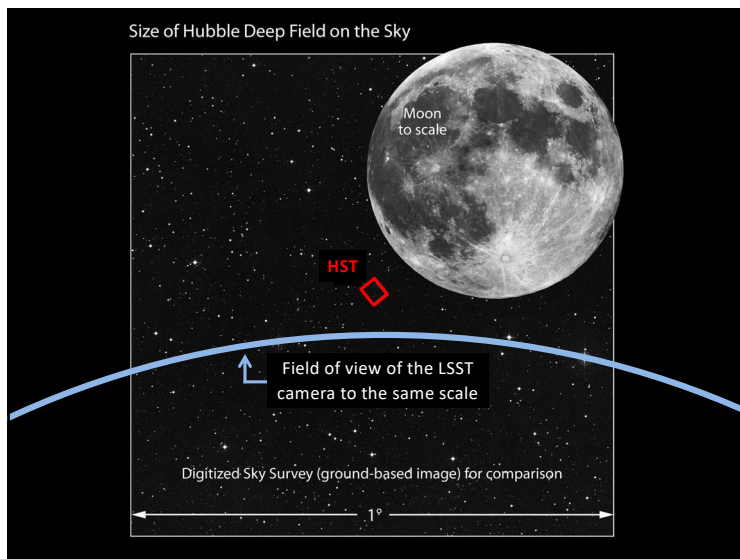
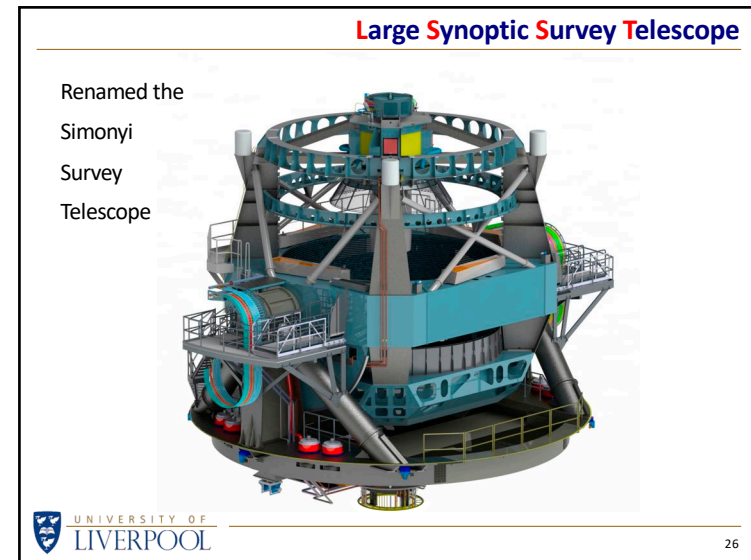
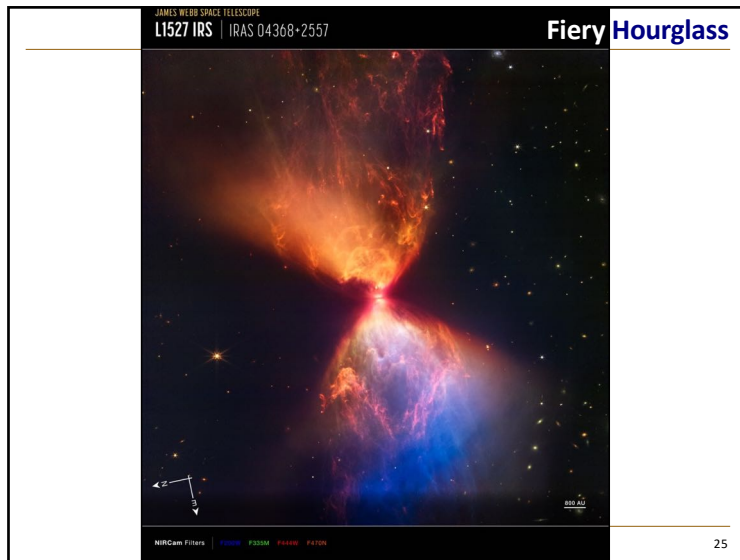
Keeping an Eye on the Universe



Keeping an Eye on the Universe




Keeping an Eye on the Universe



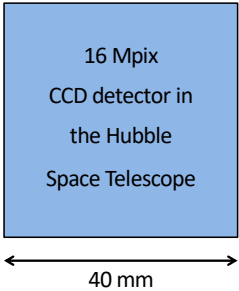
Keeping an Eye on the Universe

Camera CCD

Camera module from a mobile phone




... and at the same scale



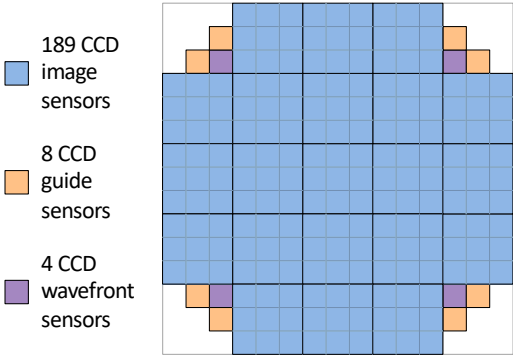
16 Mpix
CCD detector in
the Hubble
Space Telescope

40 mm

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29

LSST Camera CCD



189 CCD
image
sensors


8 CCD
guide
sensors

4 CCD
wavefront
sensors

Array is
0.6x0.6 m

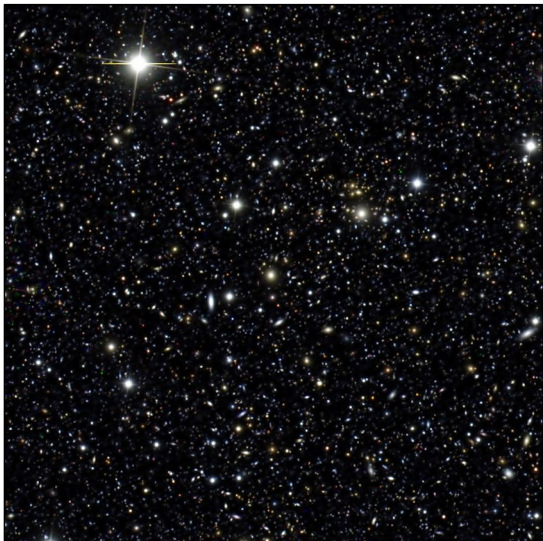
Image is
3 Gpixels

Readout
in 2 sec


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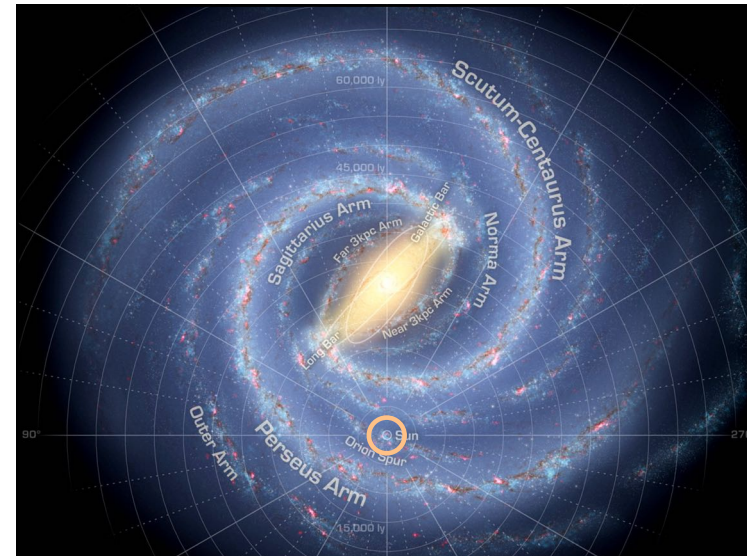
30

LSST Camera



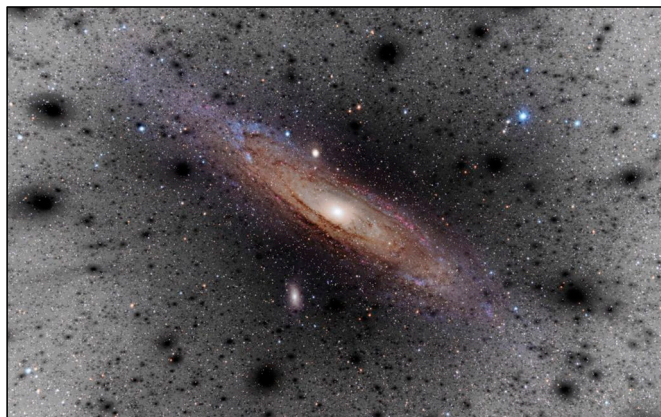
This simulated image is about a Mpixel, or 0.03% of the full-sized image captured by the camera, and gives an idea of what can be expected to be seen in a single 15 sec exposure.

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Keeping an Eye on the Universe

LSST Science – Dark Matter



European Extremely Large Telescope

