




Comparing Galaxy Sizes

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❖ Hierarchical Galaxy Evolution

- ◇ Galaxies evolve through accreting matter and through galaxy mergers

❖ Compare Galaxy Sizes

- ◇ Compare sizes of galaxies at different evolutionary stages
 - ◇ 1.4 billion and 13.8 billion years after the Big Bang

Spiral Galaxies



Image Credit: NASA/ESA HST

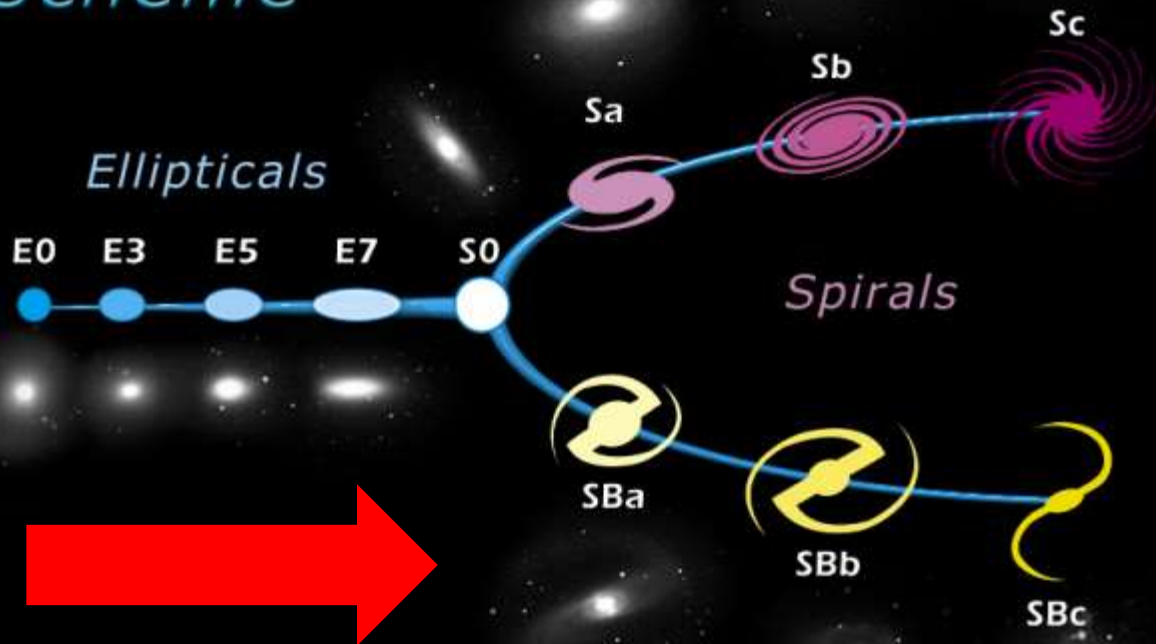
Elliptical Galaxies



Image Credit: AAT

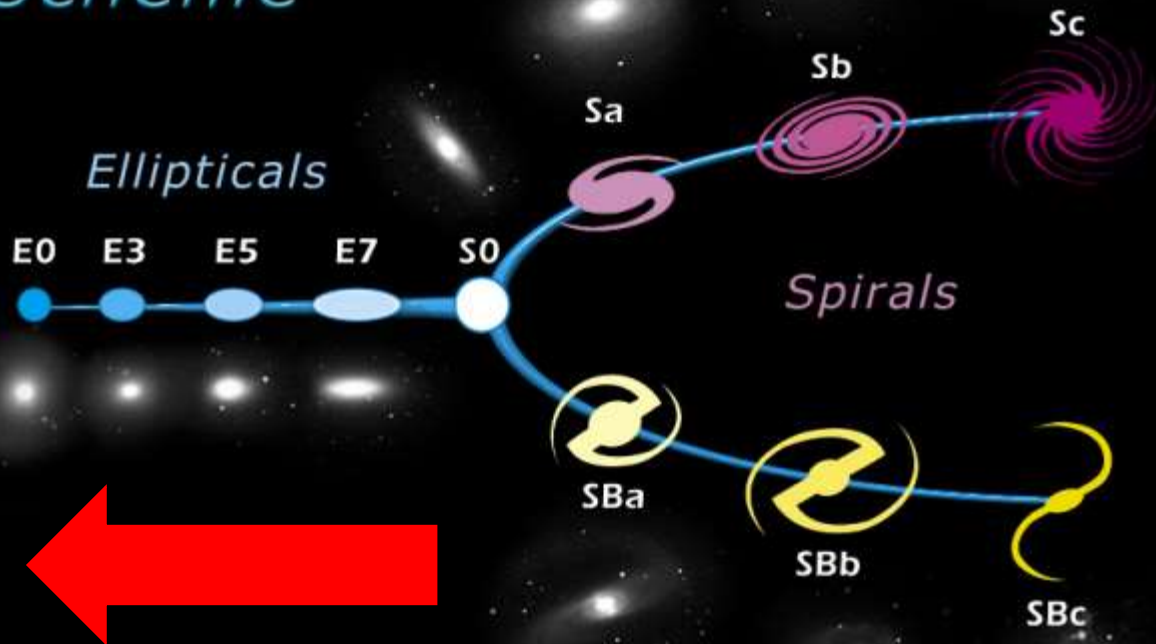
Top - Down

Edwin Hubble's Classification Scheme



Bottom - Up

Edwin Hubble's Classification Scheme





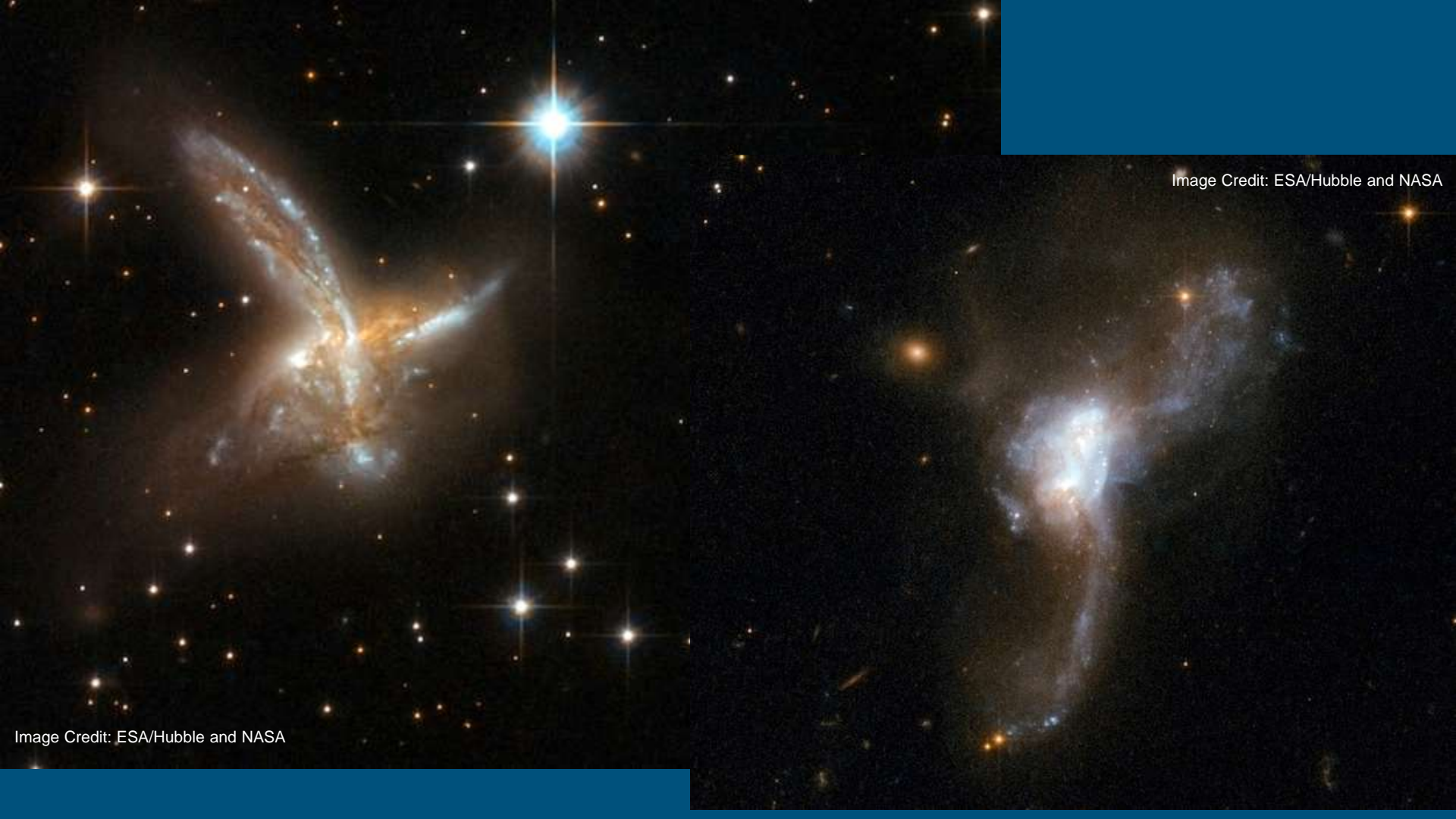


Image Credit: ESA/Hubble and NASA

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Image Credit: ESA



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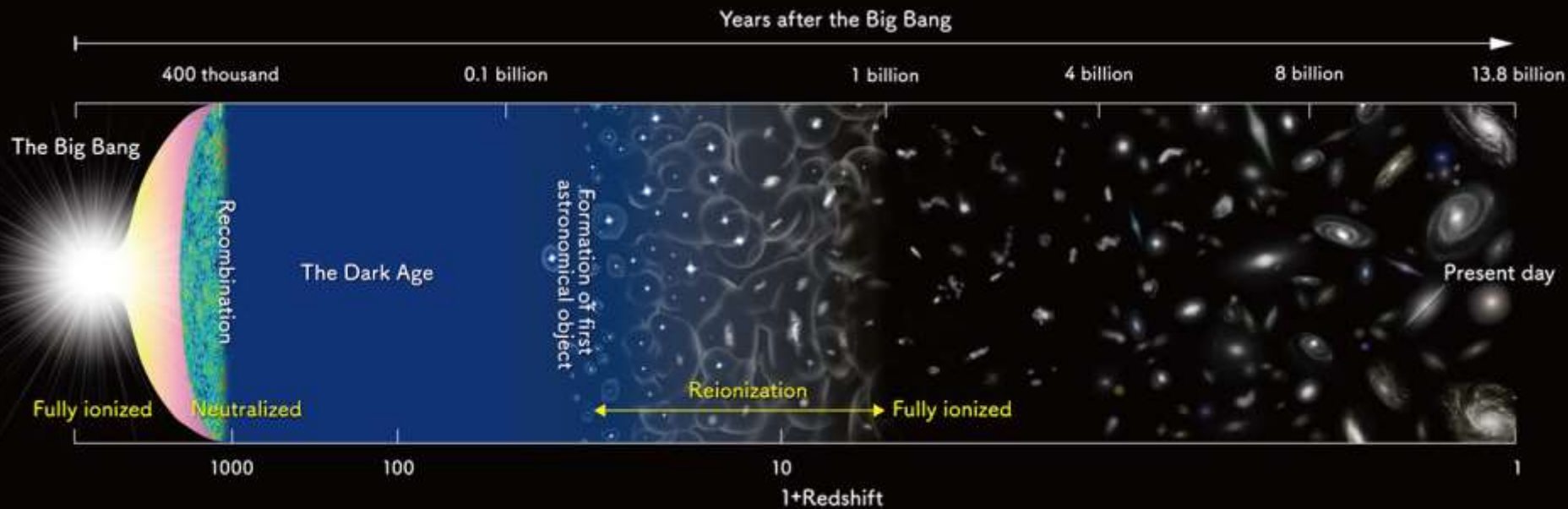


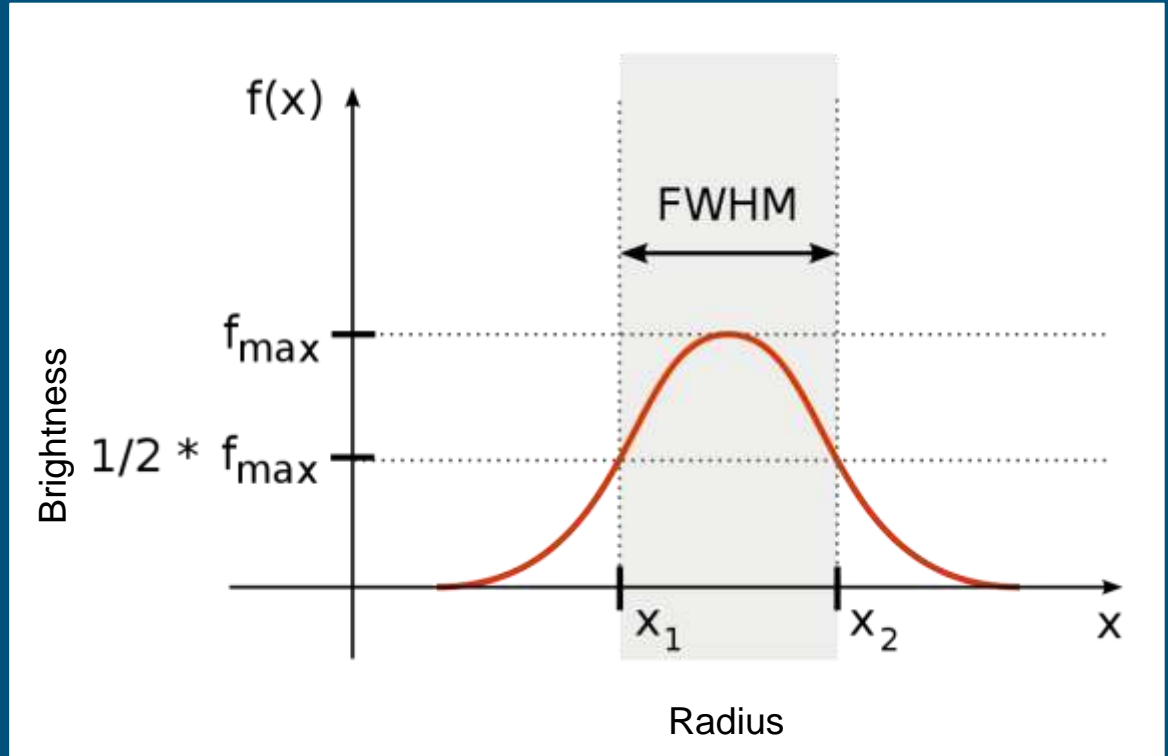
Image Credit: NAOJ



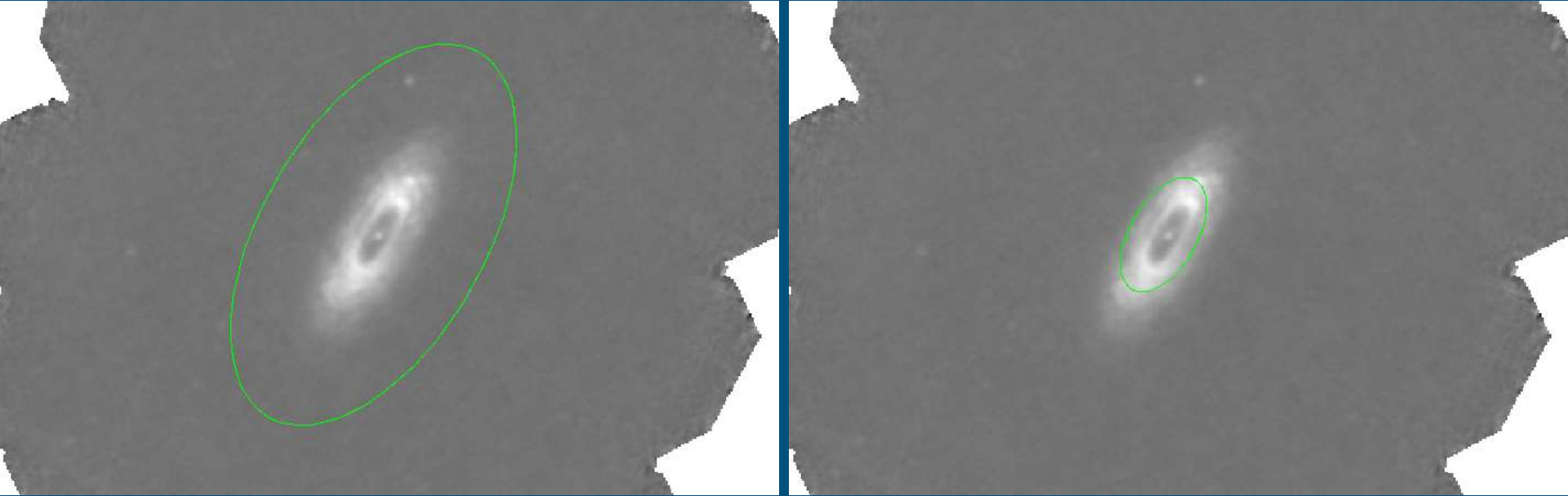
Measuring Sizes (Early Universe Galaxies)



Image Credit: Las Cumbres Observatory



Measuring Sizes (Later Universe Galaxies)



Future Work



References

Staudaher, Shawn M., PhD, University of Wyoming

Gullberg, Bitten, Durham University

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Any Questions?

