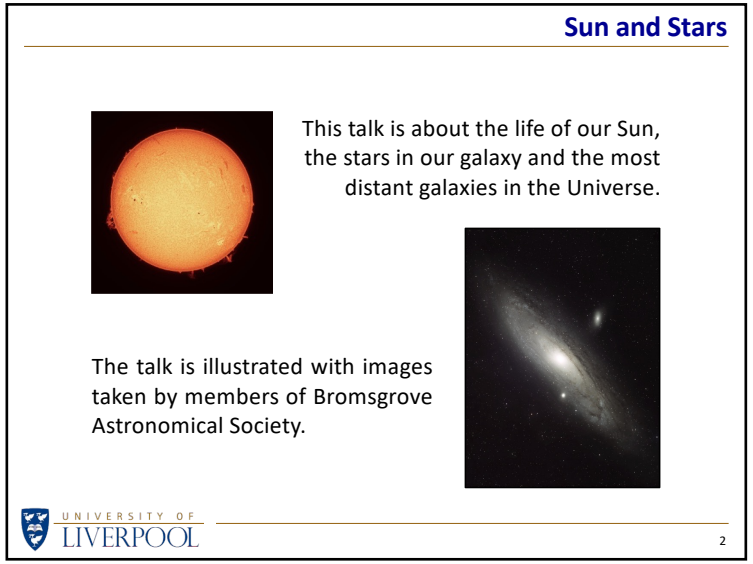

SUN
AND STARS
Dr Steve Barrett
BASoc 5 Oct 2026


Sun and Stars
This talk is about the life of our Sun, the stars in our galaxy and the most distant galaxies in the Universe.
The talk is illustrated with images taken by members of Bromsgrove Astronomical Society.
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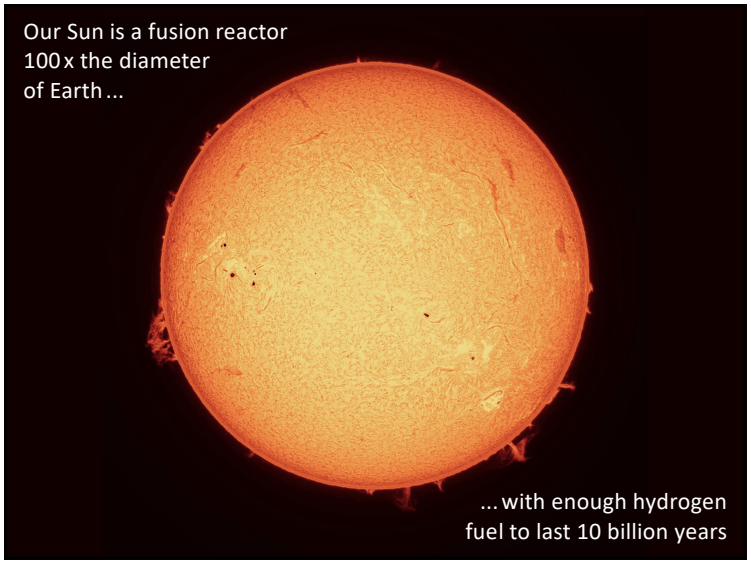
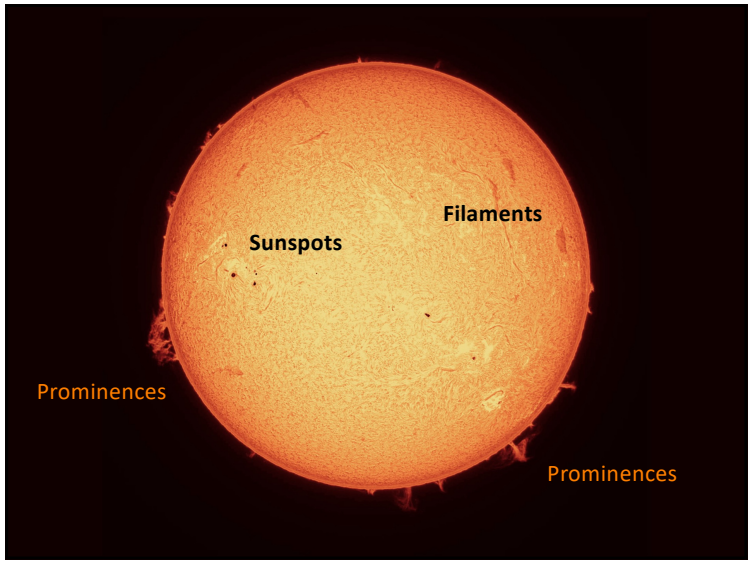
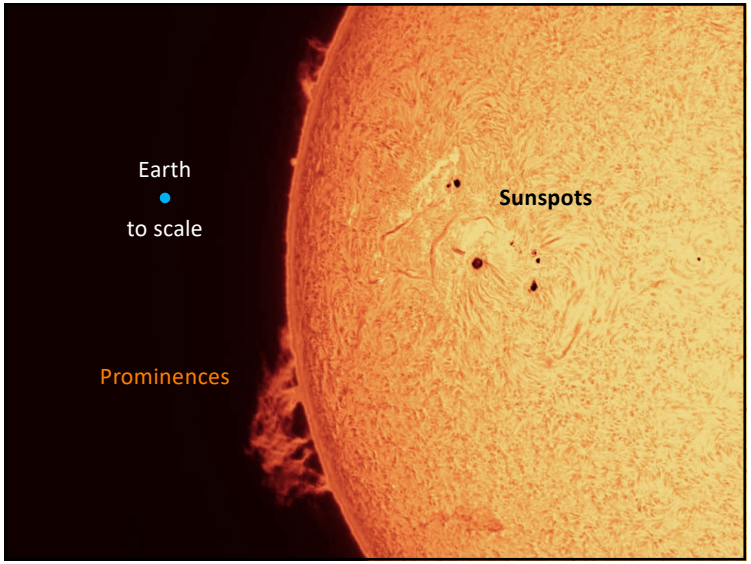
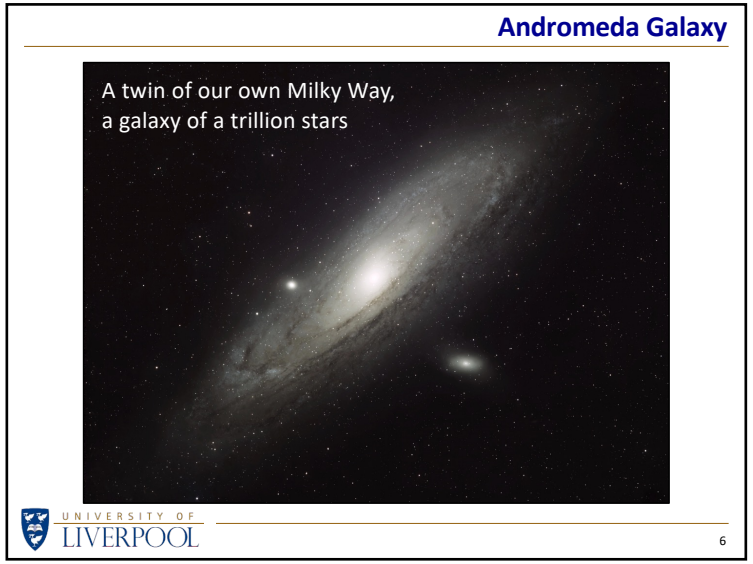
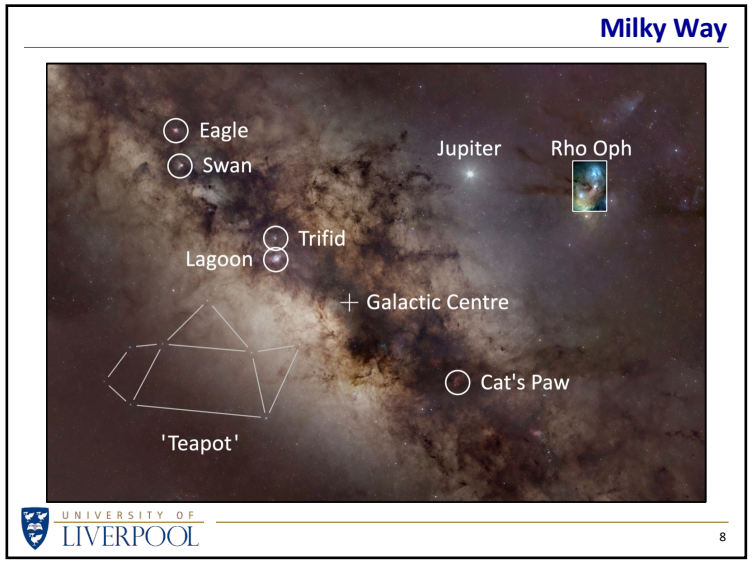

Our Sun is a fusion reactor 100x the diameter of Earth...
...with enough hydrogen fuel to last 10 billion years


Filaments
Sunspots
Prominences
Prominences

Sun and Stars







Rho Ophiuchi Star Cloud

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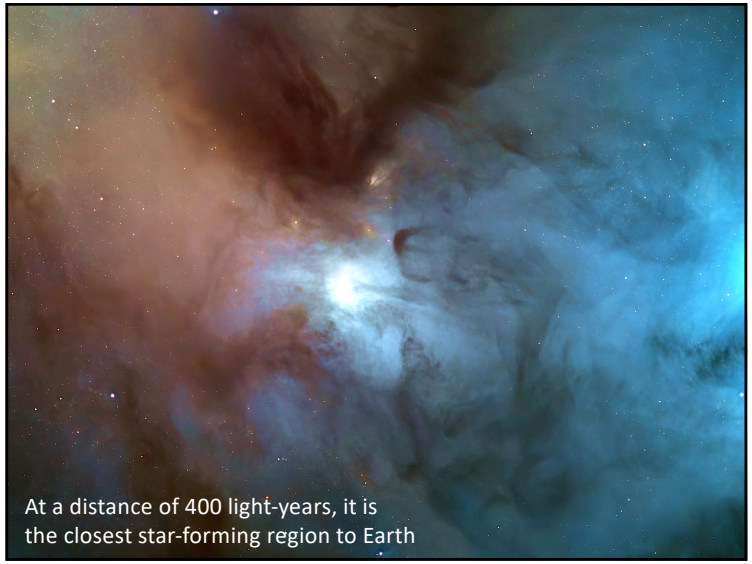
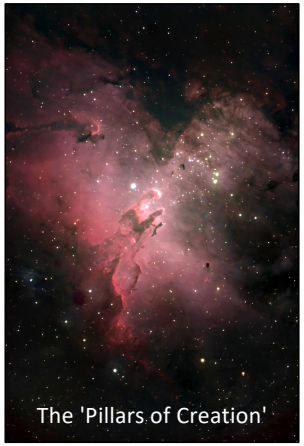


Eagle Nebula



Trifid Nebula

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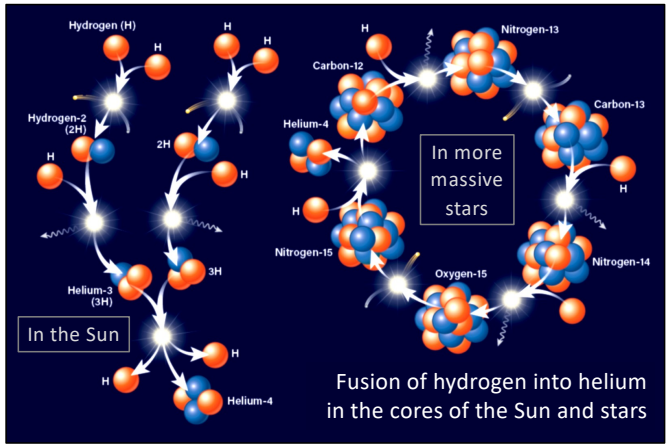
Fusion In Stars



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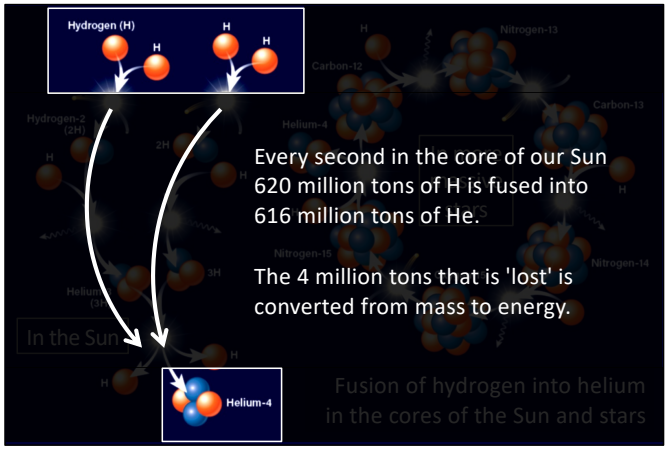
Fusion In Stars



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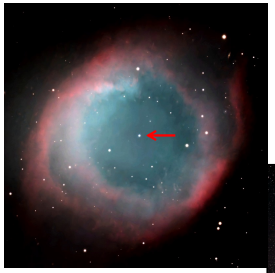
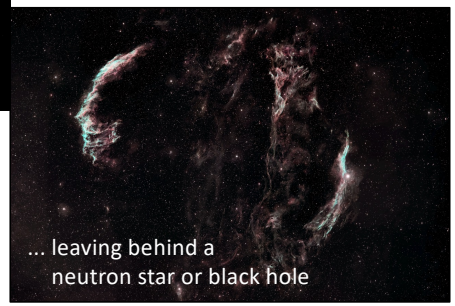
Helix Nebula



The Helix Nebula formed after a star like our Sun ran out of its hydrogen fuel and shrugged off its outer layers, leaving behind a white dwarf star

Veil Nebula

Massive stars might end their lives in a supernova explosion



... leaving behind a neutron star or black hole

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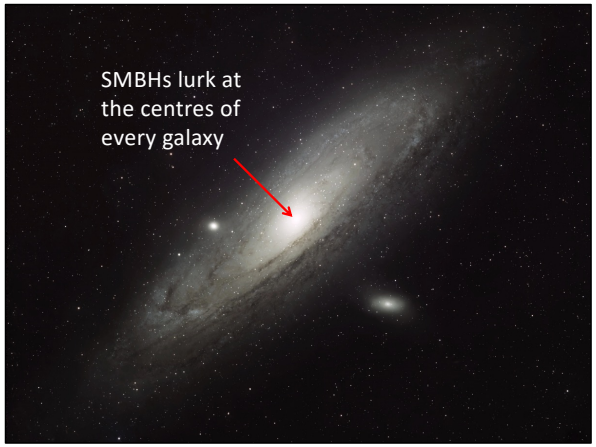
Supermassive Black Holes



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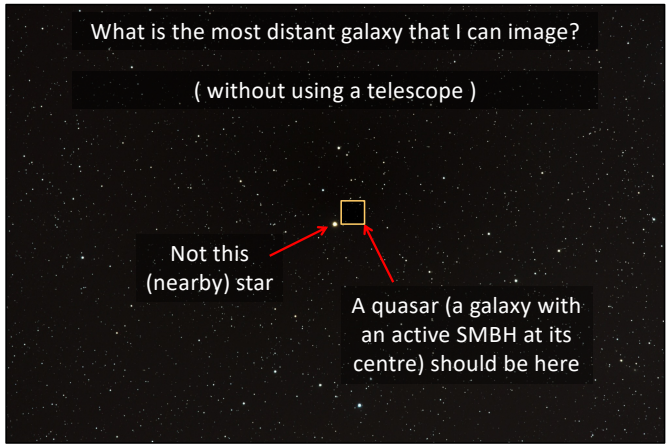
Quasar



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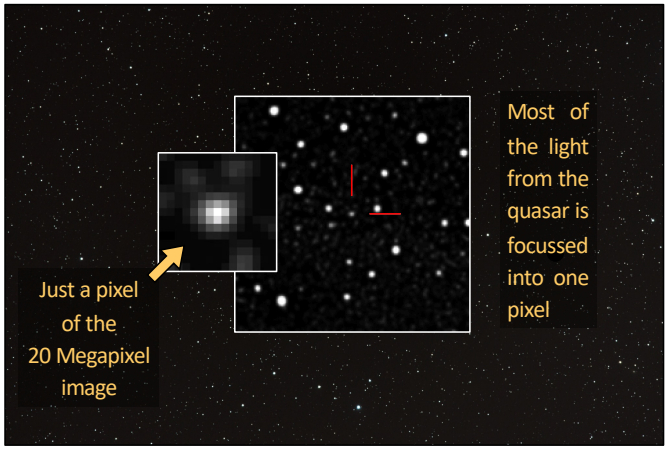
Quasar



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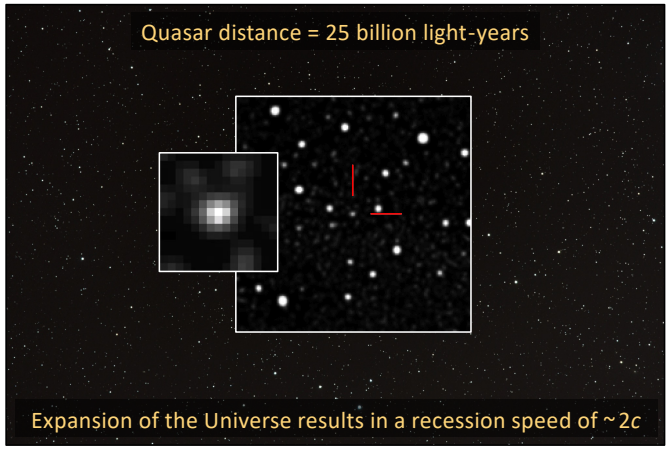
Quasar



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Epilogue

There's a lot of Universe out there for you to explore...

...and you can do a surprising amount from your back garden even if you don't have expensive equipment.

Why don't you give it a go?

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