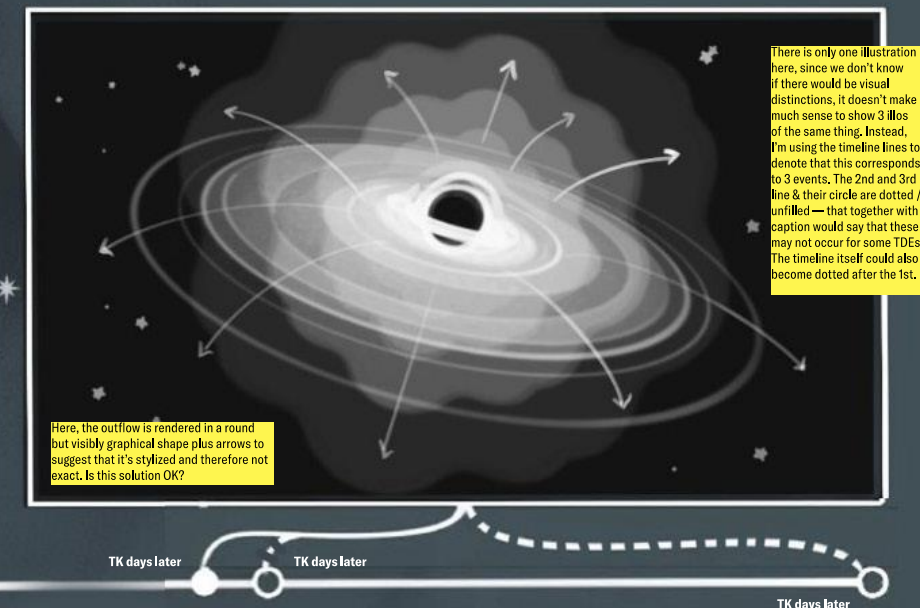


Star Death by Black Hole

Almost a decade ago aMa voluptatio omnimpo repudam eveliquae. Ut omnihil laturandae quis nonsedi sitemporpor amet fugitatum rectatiasit ea nullandit int quam atem facea consequis rehentia voluptus ipsum volutas aspedit omnim que sa non et accus alignam enditiis aut pa pliatio. Pudae nonectem eariatem

TIGHT SKETCH

voluptatem facepelesti debet ea dolore, culpa dolor sunt et quam eaque ra dipiendi igenis aut aut porruptae. Uciligendi nonetur? At unto iunt experem sim sinihiliquam fuga. Nulpa volorep edipidusaes prendior simped quamet landitae nonsequo doloriatur magnatisque vidipsum nes a qui bla volor sit,



NON-RELATIVISTIC OUTFLOW (MORE COMMON)

Text TK, rooted in this type of info: "TDE outflows appear most common a thousand days after the initial disruption. Some TDEs appear to even have a second outflow- one relatively prompt, and another hundreds of days after the initial one has faded. There appears to be no significant correlation between other wavelengths when radio emission begins- no optical flare indicating a second star has been disrupted, no X-ray emission that would indicate a significant change in the accretion



@whereisyvette.bsky.social



/u/Andromeda321

SOME OF MY OUTREACH PROJECTS

LIGO GWANW

Yvette Cendes
University of Oregon
6/10/25

WHAT IS REDDIT?


- Reddit is an entertainment/ news website where registered community members can submit content, and comment on submissions
- 9th most visited website in the world (430 million monthly users), ~half from the USA
- Space/astro is huge on Reddit- 30 million subscribers on the biggest space/science subs!

MY SUBREDDITS - DASHBOARD - **HOME** - POPULAR - ALL - **MYRANDOM** - SAVED - EDIT | PICS - TRAVEL - TORONTO - BESTOF - ASKREDDIT - LEGO - SPACE - CROSSSTITCH - TRUEREDDIT - TROLLXCHROMOSOMES - ANDROMEDA321 - CENTURYCLUB - LEGALADVICE - RELATIONSHIPS - PARE


reddit **best** hot new rising controversial top gilded wiki show images (13)

Andromeda321 (229,699 • 1,194,868) | preferences | logout

trending subreddits r/WhatsWrongWithYourDog r/Physics r/FixedTattoos r/cursedimages r/suggestmeabook 31 comments

1 5358  **We are chemical weapons attack survivors. Now, we are trying to hold corporations accountable for their role in the attack. Ask us anything.** [Nonprofit-Live] (self.IAmA)
submitted 3 hours ago * (last edited 24 minutes ago) by HalabjaJustice to r/IAmA
243 comments source share save hide report crosspost

2 8728  **Hard for me NOT to see Minas Tirith in this one. 3rd day of The Routeburn Track in New Zealand back in January.** [OC] [2048x1536] (l.redd.it)
submitted 6 hours ago by OnemanShowIA to r/EarthPorn
128 comments share save hide report crosspost [I+c]

3 11.6k  **I must protect the little human** (l.imgur.com)
submitted 7 hours ago by zombiecmh to r/Eyebleach
119 comments share save hide report crosspost [I+c]

search

Submit a new link

Submit a new text post

Create your own subreddit

...for your classroom.
...for your town.

SUBREDDITS FOCUS ON A TOPIC...

The screenshot shows the Astronomy subreddit interface. At the top, the subreddit banner features a space-themed image with the word 'reddit' in red and 'ASTRONOMY' in white. Navigation tabs include 'hot', 'new', 'rising', 'controversial', 'top', 'gilded', 'wiki', and 'show images (9)'. The user profile 'Andromeda321' is visible in the top right corner with a score of 235,549 and 1,200,315 karma. A search bar and buttons for 'Submit a new link' and 'Submit a new text post' are on the right. The main content area lists nine posts, each with a rank, up/down arrows, a thumbnail, title, author, submission time, and engagement options. The right sidebar provides subreddit statistics, including 315,433 stargazers and 112 users online, along with a description of the community and a list of recommended articles.

reddit **ASTRONOMY** hot new rising controversial top gilded wiki show images (9)

Andromeda321 (235,549 · 1,200,315) preferences logout

search

Submit a new link

Submit a new text post

Astronomy

☒ Use subreddit style

unsubscribe 1 +shortcut +dashboard

315,433 stargazers
112 users here now

☒ Show this subreddit's theme

☒ Show my flair on this subreddit. It looks like:
Andromeda321

Everything to do with **Astronomy**:

A hobby of humanity since the dawn of time, and the scientific study of celestial objects.

"Astronomy compels the soul to look upward, and leads us from this world to another."

- Plato

"We are a way for the cosmos to know itself."

- Carl Sagan

Looking for your first telescope?

Here are a few articles to help you make an informed decision:

- Advice for First Time Telescope Buyers by Joe Roberts
- Three Low-Cost Telescopes by Joshua Roth and Tony Flanders
- Choosing Your First Telescope by Joshua Roth

1 457 Jellyfish Nebula (astrodoc.ca) submitted 7 hours ago by rbrecher 5 comments share save hide report crosspost [I+c]

2 348 Four panel mosaic of last nights first quarter moon, March 24, 2018 (l.redd.it) submitted 15 hours ago by leisurelyscientist 6 comments share save hide report crosspost [I+c]

3 330 Iridium flare passing by Polaris (l.redd.it) submitted 17 hours ago by evolveuniverse 8 comments share save hide report crosspost [I+c]

4 1206 Edwin Hubble at the controls of the 100-inch telescope at Mount Wilson, circa 1922. [768 x 837] (l.redd.it) submitted 1 day ago by GoodGriefWhatsNext 25 comments share save hide report crosspost [I+c]

5 84 The Leviathan of Parsonstown, the 72 inch telescope of William Parsons. This was the largest telescope in the world from 1845-1917 when the 100 inch Hooker surpassed it. Using it, Parsons discovered the spiral structure of certain "nebula"... photo c.1880s (l.redd.it) submitted 17 hours ago by Reporter_at_large [+2] 2 comments share save hide report crosspost [I+c]

6 10 Aurora above Abisko (1.7, 50mm, 20") (l.redd.it) submitted 7 hours ago by briggs93 comment share save hide report crosspost [I+c]

7 4 Advice Needed: Upgrading a High School Planetarium (self.Astronomy) submitted 8 hours ago by ScienceTeacherTn 1 comment source share save hide report crosspost

8 The Coma Cluster of Galaxies (apod.nasa.gov) submitted an hour ago by kurtill comment share save hide report crosspost [I+c]

9 1 JWST rant (& questions) (self.Astronomy) submitted 3 hours ago by 12tn2 1 comment source share save hide report crosspost

SUBREDDITS CAN BE ON ANYTHING...

ANDROMEDA321

ASTRONOMER HERE!



1531

STICKIED

+

(UPDATED!) So you want to be an astronomer... ✓ (self.Andromeda321)

submitted 5 years ago * (last edited 2 months ago) by Andromeda321 - announcement

175 comments

source share save hide delete spam remove unlock nsfw spoiler crosspost

70

+

Road tripping up to LIGO via the Columbia River Gorge... and it is gorge-ous!!! (i.redd.it)

submitted 15 hours ago by Andromeda321

7 comments

share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

524

REDDIT

+

Omg- the students in our department made trading cards for all the professors, and this one's mine! 🤔 (reddit.com)

submitted 12 days ago by Andromeda321

20 comments (11 new)

share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

198

+

Finished last night- a periodic table showing the origin of the elements, in cross stitch! (i.redd.it)

submitted 23 days ago by Andromeda321

5 comments

share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

229

SELF

+

Man, teaching is a LOT (self.Andromeda321)

submitted 1 month ago by Andromeda321

7 comments (1 new)

source share save hide delete spam remove approve lock nsfw spoiler crosspost

20

STICKIED

+

Q&A thread: June/July 2025 (self.Andromeda321)

submitted 8 days ago by Andromeda321 - announcement

9 comments

source share save hide delete spam remove approve lock nsfw spoiler crosspost

170

SELF

+

Good news- looks like we're starting the first astronomy minor (and someday major) in the state of Oregon!!! (self.Andromeda321)

submitted 6 days ago by Andromeda321

8 comments

source share save hide delete spam remove approve lock nsfw spoiler crosspost

111

+

Lovely time visiting my hometown this long weekend! I've been many places but Pittsburgh still has some of the loveliest views 🤔 (i.redd.it)

submitted 13 days ago by Andromeda321

2 comments

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77

+

I've appeared on a recent episode of the podcast "The LiUniverse"- talking about shredding stars and black holes! Check it out! (youtu.be)

submitted 26 days ago by Andromeda321

5 comments

share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

159

+

I feel they're totally channeling the creepy twins from The Shining whenever I turn the corner and see this (i.redd.it)

submitted 1 month ago by Andromeda321

3 comments

share save hide delete spam remove approve lock nsfw spoiler crosspost [l+c]

Search

LINK

TEXT

ANDROMEDA321

UNSUBSCRIBE

☒ use subreddit style

+dashboard -shortcut

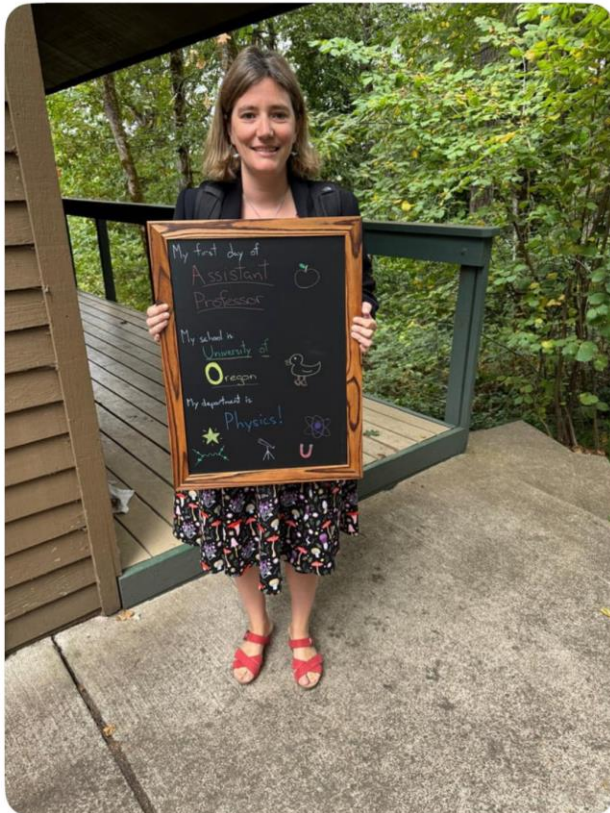
17,295 readers 5 users here now

☐ show this subreddit's theme

MY ACCOUNT, /U/ANDROMEDA321

r/Astronomy 267d

Astronomer here! Today is my first day as a professor!



38.6k 794 12 Share

2.7M views

[See More Insights](#)

r/space 2y

I cross stitched the Carina Nebula, one of the first JWST images!



42.9k 247 Share

2.2M views

[See More Insights](#)

12:06



r/worldnews
u/Andromeda321 · 9y · bbc.com

Gravitational waves from black holes detected



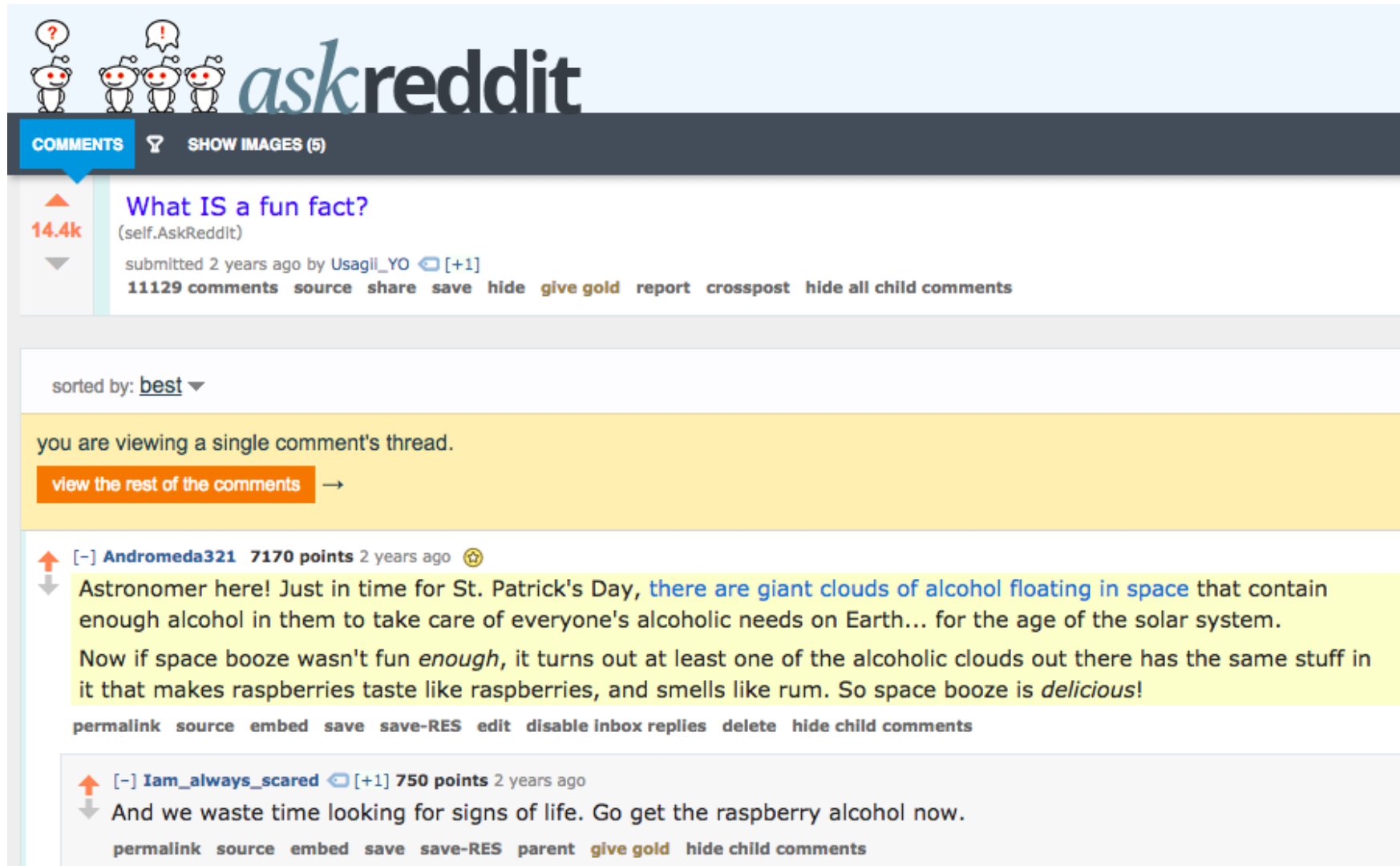
65.4k





4,192





COMMENTS ARE IMPORTANT TOO!





 askreddit




COMMENTS  SHOW IMAGES (5)

 14.4k  **What IS a fun fact?**
(self.AskReddit)
submitted 2 years ago by Usagii_YO  [+1]
11129 comments source share save hide give gold report crosspost hide all child comments

sorted by: best ▼

you are viewing a single comment's thread.
[view the rest of the comments](#) →

 [-] **Andromeda321** 7170 points 2 years ago 
 Astronomer here! Just in time for St. Patrick's Day, [there are giant clouds of alcohol floating in space](#) that contain enough alcohol in them to take care of everyone's alcoholic needs on Earth... for the age of the solar system.
Now if space booze wasn't fun *enough*, it turns out at least one of the alcoholic clouds out there has the same stuff in it that makes raspberries taste like raspberries, and smells like rum. So space booze is *delicious*!
permalink source embed save save-RES edit disable inbox replies delete hide child comments

 [-] **Iam_always_scared**  [+1] 750 points 2 years ago
 And we waste time looking for signs of life. Go get the raspberry alcohol now.
permalink source embed save save-RES parent give gold hide child comments

HOW TO DO SOME REDDIT OUTREACH

- /r/askscience and /r/science are more heavily moderated, and scientists get a special badge to identify expertise
- Post comments as an individual, not an organization (“I’m a science communicator at X Observatory and...”)
- **Don’t** bog down in details. **Do** embed links in line
- Timing is everything! Comments posted in a “rising” thread get the most noticed (after a few hours on the front page, even good content can be buried)

IAMA ASTRONOMER! AMA!

- “Ask Me Anything!” (AMA) events bring people with a “unique experience” to the website, and the public asks questions
- Can be done by an individual, research group, organization...
- Can schedule for a certain time by messaging moderators of a subreddit
- /r/IAMA is the main subreddit, but they are also scheduled in /r/science, /r/askscience

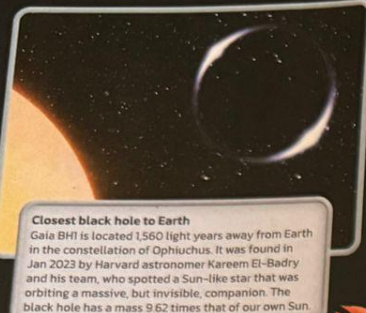
MOVING ON... GUINNESS WORLD RECORDS

(Probably) related to my Reddit outreach, I am also the astronomy editor for the *Guinness Book of World Records* (GWR)

Astronomy is defined for these purposes as “everything outside the solar system”



Astronomy



Gaia BH1 is located 1,560 light years away from Earth in the constellation of Ophiuchus. It was found in Jan 2023 by Harvard astronomer Kareem El-Badry and his team, who spotted a Sun-like star that was orbiting a massive, but invisible, companion. The black hole has a mass 9.62 times that of our own Sun.

At "just" 149.6 million km (93 million mi) from Earth, the Sun is considered astronomically close. The **next-nearest star**, Proxima Centauri, is more than 250,000 times farther away.

Astronomers use a system called apparent magnitude, which describes brightness relative to the star Vega (which is zero on the scale). The higher the number, the dimmer an object appears to observers on Earth. Some exceptionally luminous objects can have negative magnitudes. Sirius A (or alpha Canis Majoris) has an apparent magnitude of -1.46.

On 9 Oct 2022, the GRB221009A gamma-ray burst was dubbed the "BOAT" (Brightest Of All Time) by astronomers. This cosmic explosion was 70 times brighter than any previously recorded event. It reached a peak of 6.5 million gamma-ray photons per second, each carrying an energy of 18 teraelectronvolts – or around two times the power that the Large Hadron Collider can impart on particles.

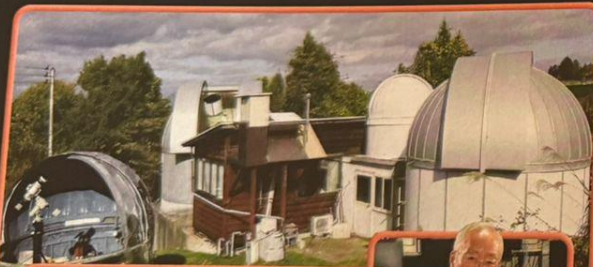
Located at the centre of the Abell 209 galaxy cluster, IC 1101 has a major diameter of 5.6 million light years – around 50 times larger than our own Milky Way. Its light output is equivalent to 2 trillion Suns.

CEERS 1019 was discovered by the James Webb Space Telescope at a distance of 13.1 billion light years, which means it formed just over 570 million years after the Big Bang. The black hole is 9 million times more massive than the Sun, which is actually surprisingly small for black holes found in the early universe.

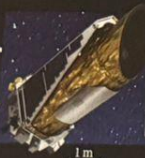
Tom Wagg (UK, b. 30 Nov 1997) was 15 years 75 days old when he found the gas giant WASP-122b on 13 Feb 2013. He was examining sky survey telescope data from the WASP (wide-angle search for planets) collaboration, an hour after starting his work-experience placement at Keele University. It took two years for the existence of Wagg's exoplanet to be confirmed by follow-up observations.

Although Earth-based observatories still play an important role, many of the new discoveries mentioned on these pages were found using one of the three space telescopes shown below. By working in space, they avoid the issues of light pollution and electromagnetic radiation that can affect observations from Earth. The **first space telescope**—the US-made **OAO-2**—launched in 1968.

Space Telescope (2021-)
Built to see infrared light, this is the largest space telescope, with a 6.6-m (21-ft) primary mirror.



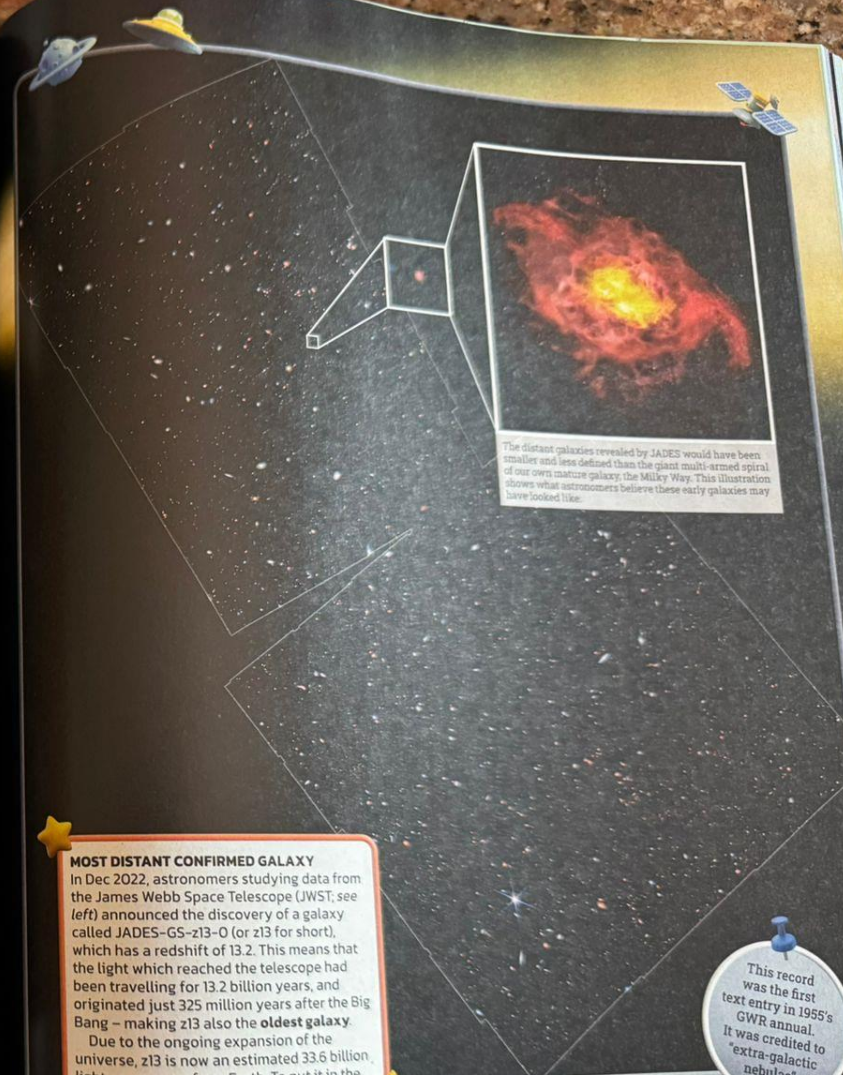
From his private observatory in the hills above Yamagata, Japan, Koichi Itagaki (JPN) has catalogued 172 exploding stars – more than any other individual. The self-trained astronomer scans the sky with seven computer-controlled telescopes situated across Japan. His most recent discovery – a spectacular supernova named SN 2023ixf in the Pinwheel Galaxy – was logged in May 2023.



Designed to continuously monitor stars for signs of exoplanets; it lays claim to the most exoplanets discovered by a telescope – 2,778.



Continually measures the location, brightness and movement of 1.8 billion celestial objects as part of the largest astrometric survey.



In Dec 2022, astronomers studying data from the James Webb Space Telescope (JWST; see *left*) announced the discovery of a galaxy called JADES-GS-z13-O (or z13 for short), which has a redshift of 13.2. This means that the light which reached the telescope had been travelling for 13.2 billion years, and originated just 325 million years after the Big Bang – making z13 also the **oldest galaxy**.

Due to the ongoing expansion of the universe, z13 is now an estimated 33.6 billion light years away from Earth. To put it in the terms used in our first edition (see right), that's 317,900,801,000,000,000,000,000 km (or 197 trillion billion mi)!

Galaxy z13 was found by the JWST Advanced Deep Extragalactic Survey (JADES), which focused the telescope on a tiny patch of seemingly empty darkness – about a tenth of the size of the full Moon – between the stars of the constellation Fornax.

This record was the first text entry in 1955's GWR annual. It was credited to "extra-galactic nebulae".

ONE
THE UNIVERSE

The universe is the entirety of space and matter. The remotest known heavenly bodies are extra-galactic nebulae at a distance of some 1,000 million light years or 6,000,000,000,000,000,000 miles. There is reason to believe that even remoter nebulae exist but, since it is possible that they are receding faster than the speed of light (670,455,000 m.p.h.), they would be beyond man's "observable horizon".

REMOTEST KNOWN BODIES