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NEWS FROM ACROSS THE UNIVERSE



Baby Stars Caught In A Galactic Spider Web

In the very beginning of the Universe, after the Big Bang, gravity began pulling together tiny particles to make stars. Millions and billions of stars were bound by gravity into groups that we call galaxies. And gravity even confines galaxies together in packs that we call 'galaxy clusters'.

Galaxy clusters are the largest groups in the entire Universe. They contain hundreds or even thousands of gigantic star-filled galaxies along with enormous clouds of blisteringly hot gas (up to 100 million degrees!). Our home galaxy of 300 billion stars looks like a tiny village, compared to these bustling cosmic cities.

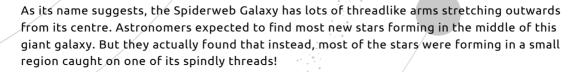
This picture was created by a talented artist and although this isn't a real photograph, it's not just a figment of the artist's imagination either. This picture was created based on real information to give us a realistic view of this galaxy cluster coming to life 10 billion years ago!

(Read 'A Flash From the Past' to find out how astronomers look back in time.)

It shows the Spiderweb Galaxy forming at the centre of a galaxy cluster. The Spiderweb Galaxy is one of the oldest galaxies ever discovered, and it's made up of dozens of smaller galaxies all merging together!

Like a construction site on Earth, galaxy clusters are dusty while they are forming. This makes it difficult to see exactly what is happening inside them. Luckily, we now have telescopes that can peer through the thick haze.

Using one of these special telescopes astronomers have managed to look at stars being born inside the Spiderweb galaxy cluster for the first time. But a surprise awaited them when they realised where these stars are forming.



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+ COOL FACT!

To make this discovery, astronomers had to brave 40 hours in a telescope control room that sits on top of a mountain, 5000 metres high! That's higher than Mont Blanc!



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