

SPACE SCOOP
NEWS FROM ACROSS THE UNIVERSE



The Most Attractive Stars in the Universe

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Have you ever played with magnets? You might have done an experiment where you lay a magnet onto a table and place an iron nail nearby. If you push the magnet slowly toward the nail, there will come a point when the nail jumps across and sticks to the magnet.

That's because magnets have something invisible that extends all around them, called a 'magnetic field'. It can cause a pushing or pulling force on other objects, even if the magnet isn't actually touching them.

The most powerful magnets in the Universe are called magnetars. These are tiny, super-compact stars, 50 times more massive than our Sun, squashed into a ball just 20 kilometres across. (That's about the size of a small city!)

Astronomers think magnetars may be created when some massive stars die in a supernova explosion. The star's gases blow out into space creating a colourful cloud like the one in this picture, called Kes 73. At the same time, the core of the star squashes down to form a magnetar.

At the centre of the cosmic cloud in this photograph lies a tiny magnetar. But what this star lacks in size it makes up for in energy, shooting out powerful jets of X-rays every few seconds! You can see the X-ray jets in blue on this photograph.

▲ COOL FACT!

Astronomers believe there could currently be more than 30 million magnetars dotted across the Milky Way!