

# Hubble captures image of the Arp 274 group of galaxies

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Credit: NASA, ESA, and M. Livio and the Hubble Heritage Team (STScI/AURA)

(PhysOrg.com) -- Arp 274, also known as NGC 5679, is a system of three galaxies that appear to be partially overlapping in the image, although they may be at somewhat different distances. The spiral shapes of two of these galaxies appear mostly intact. The third galaxy (to the far

left) is more compact, but shows evidence of star formation.

Two of the three [galaxies](#) are forming [new stars](#) at a high rate. This is evident in the bright blue knots of [star formation](#) that are strung along the arms of the galaxy on the right and along the small galaxy on the left.

The largest component is located in the middle of the three. It appears as a [spiral galaxy](#), which may be barred. The entire system resides at about 400 million light-years away from Earth in the constellation Virgo.

Hubble's Wide Field Planetary Camera 2 was used to image Arp 274 in april 2011. Blue, visible and infrared filters were combined with a filter that isolates hydrogen emission. The colors in this image reflect the intrinsic color of the different stellar populations that make up the galaxies. Yellowish older stars can be seen in the central bulge of each galaxy. A bright central cluster of stars pinpoint each nucleus. Younger blue stars trace the spiral arms, along with pinkish nebulae that are illuminated by new star formation. Interstellar dust is silhouetted against the starry population. A pair of foreground stars inside our own Milky Way are at far right.

Provided by JPL/NASA

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