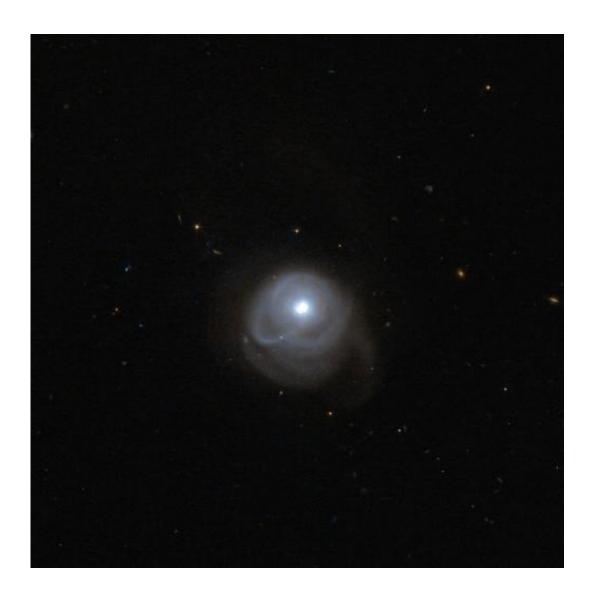


Hubble tells a tale of galactic collisions

May 13 2013



Credit: ESA/Hubble & NASA. Acknowledgement: Luca Limatola

(Phys.org) —When we look into the distant cosmos, the great majority



of the objects we see are galaxies: immense gatherings of stars, planets, gas, dust, and dark matter, showing up in all kind of shapes. This Hubble picture registers several, but the galaxy catalogued as 2MASX J05210136-2521450 stands out at a glance due to its interesting shape.

This object is an ultraluminous infrared galaxy which emits a tremendous amount of light at <u>infrared wavelengths</u>. Scientists connect this to <u>intense star</u> formation activity, triggered by a collision between two <u>interacting galaxies</u>.

The merging process has left its signs: 2MASX J05210136-2521450 presents a single, bright nucleus and a spectacular outer structure that consists of a one-sided extension of the inner arms, with a tidal tail heading in the opposite direction, formed from material ripped out from the merging galaxies by gravitational forces.

The image is a combination of exposures taken by Hubble's Advanced Camera for Surveys, using near-infrared and visible light.

Provided by NASA

Citation: Hubble tells a tale of galactic collisions (2013, May 13) retrieved 20 March 2024 from https://phys.org/news/2013-05-hubble-tale-galactic-collisions.html

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