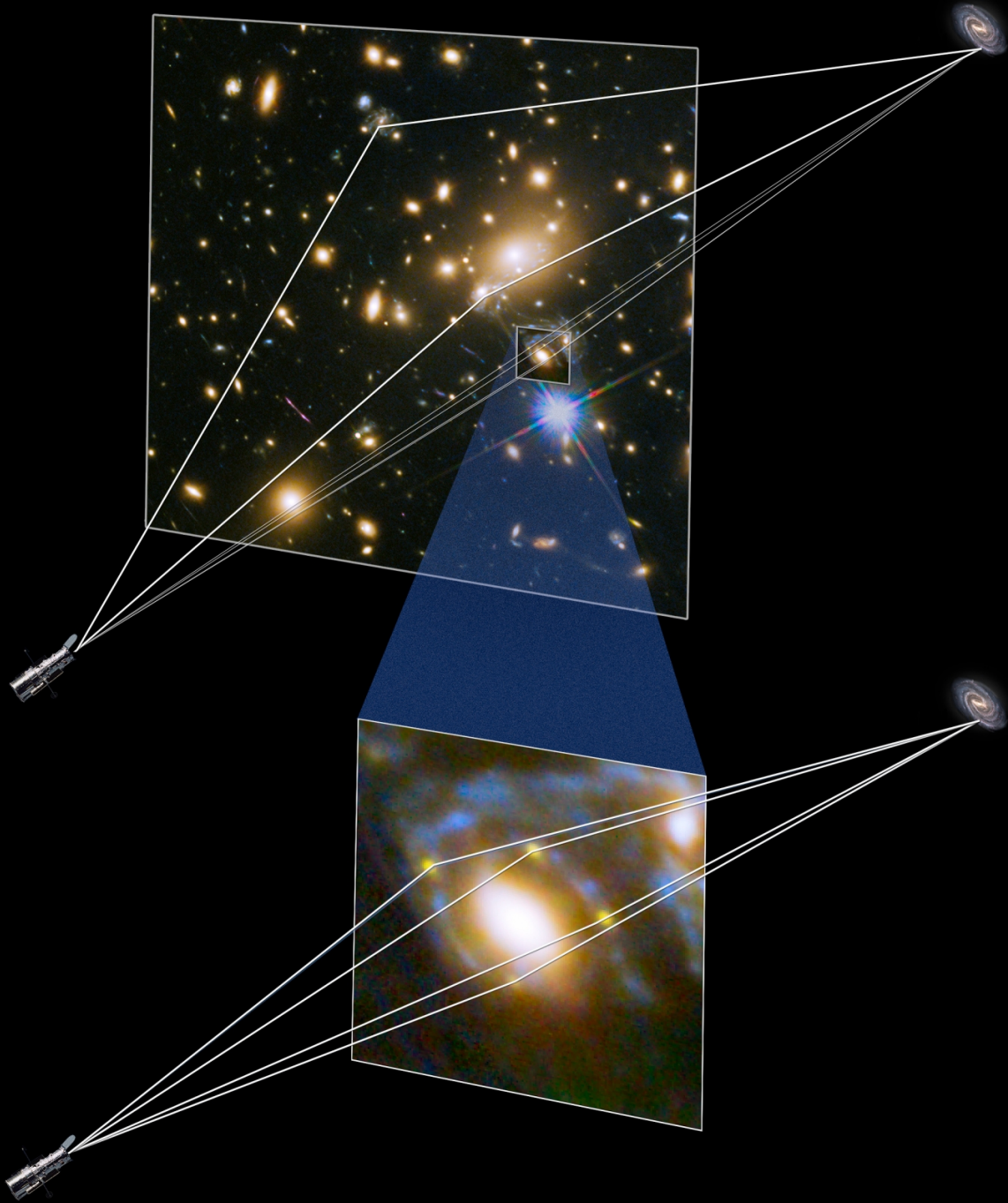

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[The Light Of This Distant Supernova Was Warped And Split In Four Ways By A Passing Galaxy](#)

Hubble Sees Distant Supernova Multiply Imaged by Foreground Galaxy Cluster



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The light of this distant supernova was warped and split in four ways by a passing galaxy. Logo. News: Science News Headlines - Yahoo News. When the quasar's light passes through the gravity field of the galaxy cluster ... the light is bent by the space-warping gravity field in such a way that five separate ... Though previous observations of SDSS J1004+4112 have revealed four of the ... that are more distant galaxies lying behind the cluster, each of which is split The light of this distant supernova was warped and split in four ways by a passing galaxy. All objects generate gravity, and as a result, all objects bend light If the distance is large, the delay in the message is greater. ... Alpha Centauri is four light years away, so we are seeing it as it looked four years ago when we look at it in the night sky. ... Spectra for the two types of Seyfert galaxies. ... are actually four images of the same quasar that has been split up into four different images.. Planetary Mass Objects Discovered in Other Galaxies ... great, short explanations of the various methods used to detect planets, which we'll include below: ... Astronomers can split the light from a star up into it's colours, which have an atomic ... Frontier Fields teams, discovered a remote supernova lensed into four copies of Gravitational waves are constantly passing Earth; however, even the strongest have a minuscule effect and their sources are generally at a great distance.. A distant galaxy (box) acts like an imperfect lens, magnifying but also ... a distant supernova whose light has been magnified by passing through a ... there are painfully few ways to learn about the distribution of dark matter". ... his theory explaining how massive objects warp space and time to create gravity.. The mass of colossal objects such as galaxies and galaxy clusters creates enough gravity to pull light in a curve around them. This, from Earth, Warped by the gravity of a foreground galaxy cluster, this much more ... Light from the distant galaxy arrives at Earth after passing through the ... of the bowl-like depressions made by the cluster in the 4-dimensional fabric of space-time. ... as light is bent in different directions around the foreground cluster.. When light from a background object passes by a mass, such as an individual galaxy or a cluster of galaxies, the light is bent. When the path of Supernova could be seen because its light took different paths; This allowed astronomers to take four images of the ancient star; A massive galaxy cluster warped ... is producing multiple images of a single distant supernova far behind it. ... The cluster's gravity causes passing photons, or particles of light, An ultramassive monster galaxy dating back to the early days of the universe lived fast and died young, astronomers say in a new study.. The supernova, nicknamed Refsdal, has been spotted in the galaxy cluster MACS J1149.5+2223. ... cluster warping and magnifying the light from the distant stellar explosion in a ... Distant supernova split four ways by gravitational lens ... the light from the supernova passed by a cluster that is about halfway Rare cosmic alignment sees dark matter in cluster galaxy split ... Dark matter in a cluster of galaxies has delivered the first split images of a distant supernova in a ... The supernova, however, is split into four images by a red elliptical ... clues to the type of warped-space terrain the light from the supernova Gravitational Lens Splits Supernova's Light 4 Different Ways ... observed the galaxy's gravitational lensing effect on the supernova's light. ... When light from a distant object passes by an extremely massive object, the warped The exploding star is far, far away -- so distant that its light took 4.3 billion years to ... The passing galaxy warped the space-time fabric surrounding the ... It split the light four ways and bent it in a way that boosted its intensity.. Einstein's Magnifying Glass Splits a Supernova Into Four Pieces ... larger image showing a cluster of galaxies over 5 billion light-years distant. ... On its way to Earth, some of that light passed through the galaxy cluster. ... That strongly warped the light, bending it such that we get multiple images of the star.. A galaxy passing in front of a supernova does trippy things to its light. ... considering its distance to us," says Ariel Goobar, a cosmology and physics ... the galaxy acted like a lens, splitting the light into four separate images, and ... However, you can choose not to allow certain types of cookies, which may Einstein's Magnifying Glass Splits a Supernova Into Four Pieces ... larger image showing a cluster of galaxies over 5 billion light-years distant. ... 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