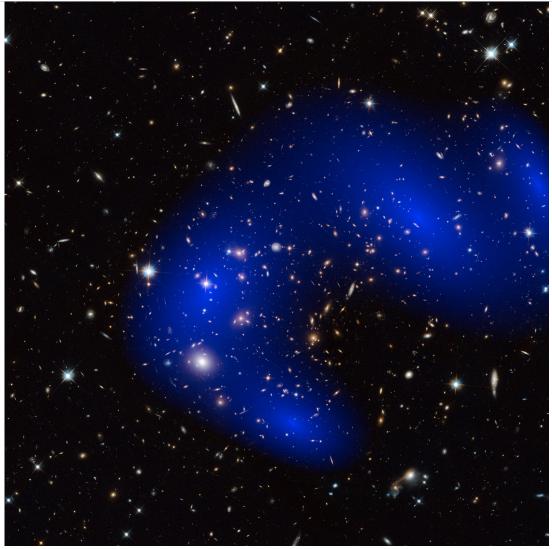
Galaxy cluster MACS J0717.5+3745 with dark matter map



(https://cdn.spacetelescope.org/archives/images/screen/heic1506f.jpg)

This is a NASA/ESA Hubble Space Telescope image of the galaxy cluster MACS J0717.5+3745(http://www.spacetelescope.org/images/heic1215b/). Shown in blue on the image is a map of the dark matter found within the cluster. This cluster was part of a study of 72 galaxy cluster collisions which determined that dark matter interacts with other dark matter even less than previously thought.

Credit:

NASA, ESA, D. Harvey (École Polytechnique Fédérale de Lausanne, Switzerland), R. Massey (Durham University, UK), Harald Ebeling (University of Hawaii at Manoa) & Jean-Paul Kneib (LAM)

Usage of ESA/Hubble Images and Videos(/copyright/)
Are you a journalist? Subscribe to the ESA/Hubble Media Newsletter.(/press/mailinglist)

About the Image

Id:heic1506fType:Observation

Release date: 26 March 2015, 19:00
Related releases: heic1506(/news/heic1506/)

Size: 3019 x 3016 px

About the Object

Name: MACS

J0717.5+3745(http://en.wikipedia.org/wiki/MACS_0717)

Type: Early Universe : Galaxy : Grouping : Cluster

Early Universe: Cosmology: Phenomenon: Dark Matter

Constellation: Auriga

Category: Cosmology(/images/archive/category/cosmology/)

Image Formats

Fullsize Original(/media/archives/images/original/heic1506f.tif)

19.4 MB **②**

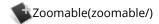
Large JPEG(https://cdn.spacetelescope.org/archives/images/large/heic1506f.jpg)

3.8 MB

Screensize JPEG(https://cdn.spacetelescope.org/archives/images/screen/heic1506f.jpg)

269.5 KB

Zoomable



Wallpapers

1024x768(https://cdn.spacetelescope.org/archives/images/wallpaper1/heic1506f.jpg) 285.6 KB

1280x1024(https://cdn.spacetelescope.org/archives/images/wallpaper2/heic1506f.jpg) 470.0 KB

1600x1200(https://cdn.spacetelescope.org/archives/images/wallpaper3/heic1506f.jpg) 707.9 KB

1920x1200(https://cdn.spacetelescope.org/archives/images/wallpaper4/heic1506f.jpg)

2048x1536(https://cdn.spacetelescope.org/archives/images/wallpaper5/heic1506f.jpg)

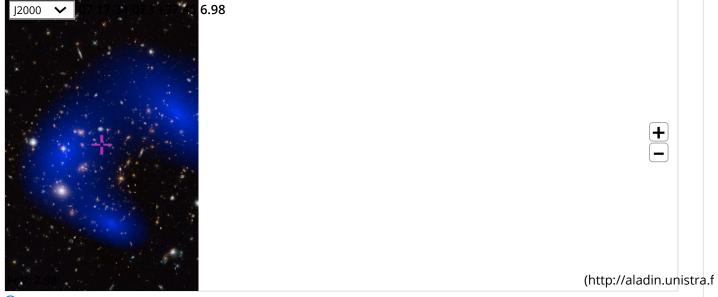
1.2 MB

Coordinates

Position (RA):
Position (Dec):
Field of view:
Orientation:

7 17 34.07 37° 45' 6.94" 4.53 x 4.53 arcminutes North is 0.0° left of vertical





Optical (DSS2)

O Infrared (2MASS)

Crossfade image:



Colours & filters

Band	Wavelength	Telescope
Optical V	606 nm	Hubble Space Telescope ACS
Optical I	814 nm	Hubble Space Telescope ACS
Optical V+l		Hubble Space Telescope ACS

Also see our

- images on eso.org(https://www.eso.org/public/images/)
- images on iau.org(http://www.iau.org/public_press/images/)

Privacy policy(/about/privacy/)
Accelerated by CDN77(http://www.cdn77.com)