

FIGURES

REVEALING GOD IN SCIENCE

12 STEMM SCHOLARS
SHARE THEIR JOURNEY

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Covina, CA

FIGURE 5.1



***Obsession* by Marc Chagall (1943)**

A house is on fire. A horse, harnessed to a cart, refuses to move. Fear looms large. Chagall's rooster, his bird of peace, lies dying. The fallen Christ lies at the door. Would I too, stumble over that stumbling stone placed in Zion—the Jewish Jesus?
Credit: AAI Fotostock.

FIGURE 5.2



***The White Crucifixion* by Marc Chagall (1938)**

The artist emphasizes the Jewish identity of Jesus in several unique ways: he replaces his traditional loincloth with a prayer shawl (*tallit*), his crown of thorns with a head cloth, and the mourning angels which customarily surround Jesus are replaced by three biblical patriarchs and a matriarch. The four are clad in traditional Jewish garments.
Credit: AAI Fotostock.

FIGURE 5.3

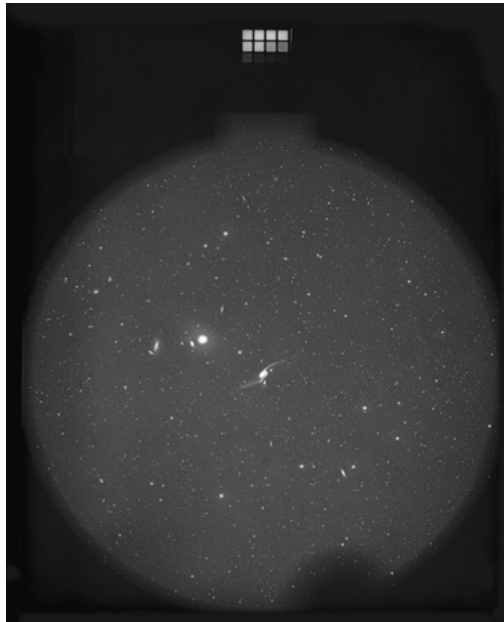


Cosmic Dust Clouds

Imaging of the region surrounding the reflection nebula Messier 78, north of Orion's belt, shows dark clouds of cosmic dust threaded through the nebula like a string of pearls.

Credit: ESO/APEX(MPIfR/ESO/OSO)/T. Stanke et al./Igor Chekalin/Digitized Sky Survey 2.

FIGURE 5.4

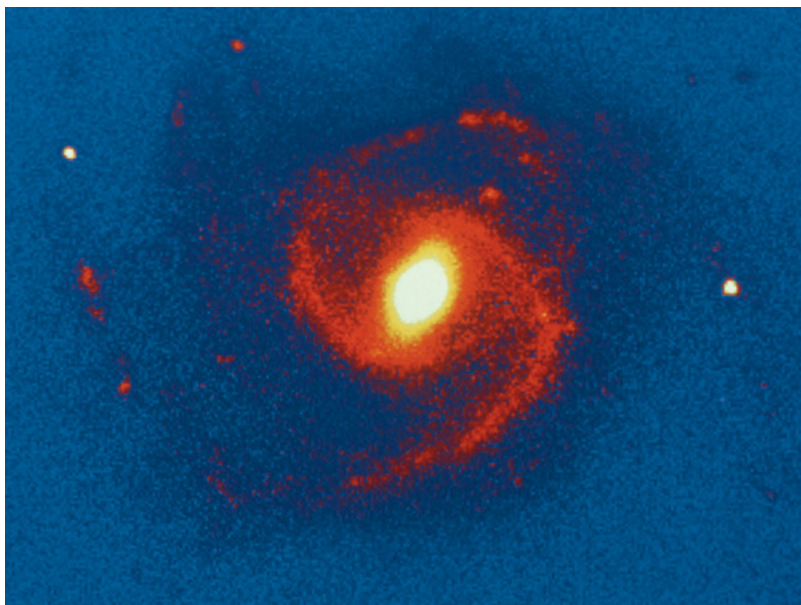


The Pavo Group of Galaxies

The Pavo group of galaxies photographed at the prime-focus of the Víctor M. Blanco Telescope (a 4-metre aperture telescope located at the Cerro Tololo Inter-American Observatory) in Chile. We are looking almost 300 million years back in time. The galaxy at center (NGC 6872), measures nearly 750,000 light-years from tip to tip. The author identified this specific galaxy as one of the largest known spiral galaxies in the universe.

Credit and copyright: Association of Universities for Research in Astronomy Inc. (AURA); all rights reserved.

FIGURE 5.5

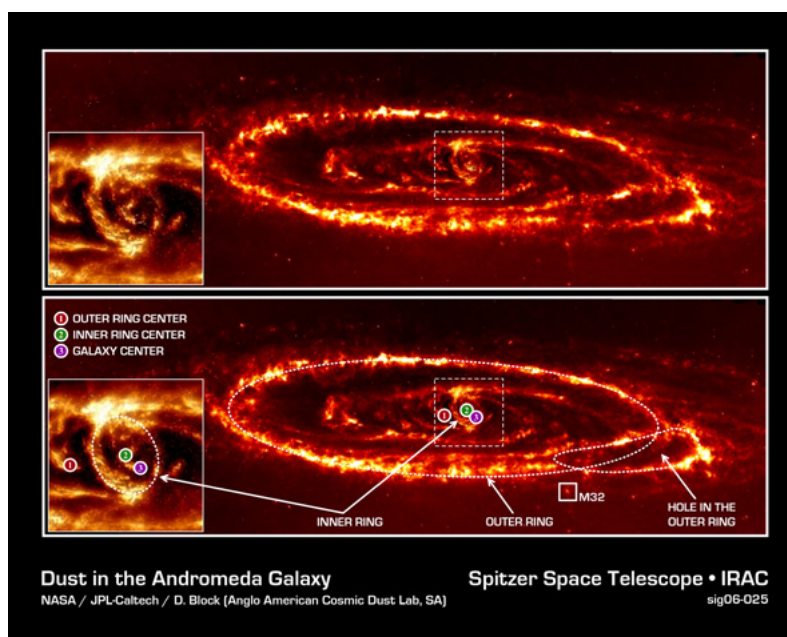


Infrared Cameras Penetrate Dust Masks of Galaxies

NGC 309 presents an exquisite (symmetric) two-armed spiral morphology in the infrared. Ninety-five percent of the total luminous mass in NGC 309 lies not in the disk of young stars and gas seen in figure 5.3, but rather in the dust-penetrated image above, secured at the Mauna Kea Observatories in Hawaii.

Credit: D. L. Block, R. J. Wainscoat & Nature.

FIGURE 5.6



Andromeda Spiral Galaxy M31

Glowing warm dust grains in the Andromeda Spiral Galaxy M31, imaged using the Spitzer Space Telescope (in orbit about the Sun), at a wavelength of eight microns. Our images reveal “rings of fire”—the aftermath of a near head-on collision between M31 and its neighbor, M32. *Credit: NASA/JPL/D. L. Block.*

FIGURE 5.7



Gloria in Profundis Deo—Glory to God in the Lowest

The hinge between the two books—the world and the Word—is the incarnation. The house is bathed under the rays of the star of Bethlehem (Matthew 2:9–11). Alongside the house, a young person, enthralled by the star, aims a handheld telescope heavenward. At central focus in the house is the King of the Jews.

Credit: Gift of the Belgian artist Frans Claerhout to the author.

FIGURE 5.8



Solar Eclipse (May 1919)

Our closest star, the Sun, eclipsed by the Moon during the historic solar eclipse of May 1919. The image unveils stunning details in the solar corona and a giant prominence emerging from the upper right part of the Sun. Stars (circled) in the constellation of Taurus (the Bull) were photographed in broad daylight and their positions confirmed predictions of Einstein's general theory of relativity. Space-time in the solar vicinity is curved.

Credit: ESO/Landessternwarte Heidelberg-Königstuhl/F. W. Dyson, A. S. Eddington, & C. Davidson.