



LET'S GIVE LIGHT ON THE UNIVERSE



Astrophysics interactive laboratory











Center of Milky Way



Center of Milky Way





Center of Milky Way













































































































Horsehead nebula

Pillars of creation















Section of the Milky Way



Interacting Galaxies



Helicoidal galaxy

















What do we see in the universe?









How do we look into the universe?



♦ Binoculars

♦ Telescopes

♦ Satellites

How do we look into the universe?



♦ Binoculars

♦ Telescopes



♦ Satellites

But, what is the light?

But, what is the light?





But, what is the light?















Wavelength



What changes at the different wavelengths?



What changes at the different wavelengths?









RADIO: ULTRAVIOLET: \diamond stars ♦ center of the Milky-Way \diamond fossil radiation X-RAY AND GAMMA-RAY: **INFRARED**:

RADIO: ULTRAVIOLET: \diamond stars \diamond center of the Milky-Way ♦ galactic nucleai \diamond fossil radiation X-RAY AND GAMMA-RAY: **INFRARED**: \diamond over dust clouds \diamond protostars

RADIO:

♦ center of the Milky-Way

♦ fossil radiation

ULTRAVIOLET:

 \diamond stars

INFRARED:

 \diamond over dust clouds

X-RAY AND GAMMA-RAY:

♦ gamma-ray bursts

emission from black holes in galaxy centers

Can we see all the radiation from the Earth?

Can we see all the radiation from the Earth?



Can we see all the radiation from the Earth?

























James Webb Space Telescope

Ssuble lieb.

Juniolet

X-ray5

Gamma rays

Herschel

Planck

Radio waves

Hubble Space Telescope

Gaia.

XMM-Newton

INTEGRAL

Different types of light are used only by astrophysicists?









Different types of light are used only by astrophysicists?







