

Visokoenergijska gama-astronomija do 2040. godine

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Bug Future Show 2020

The Art of Science



Scientific Progress



Technological Progress



The grid of this plot is 20 generated novel molecules with a Predicted Neural Network. These molecules might not be useful, perhaps not even

LST1

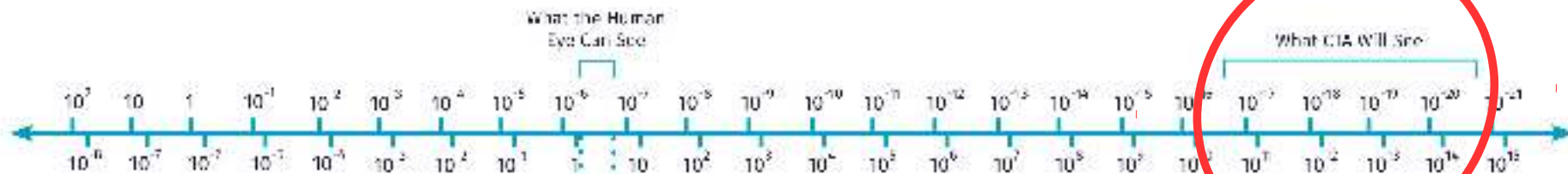




The Electromagnetic Spectrum

Wavelength
in Metres

Electron
Volts (eV)



Relative
Wavelength
Size



Building



Baseball



The Cell



CD



Planet



Atom



Atomic Nuclei



Smallest Size Resolvable by the Large Hadron Collider

Spectrum



Radio Waves

Microwaves

Infrared

Visible Light

Ultra violet

X-rays

Gamma Rays

Sources



AM/FM Radio



Microwave Oven



Deep and Other Long Wavelength



The Sun



X-Ray Machines



Radiotherapy Machines

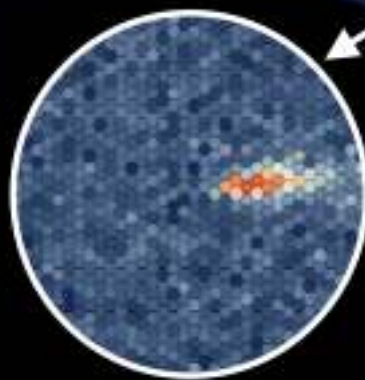


Very High Energy Cosmic Sources

γ -ray enters the atmosphere

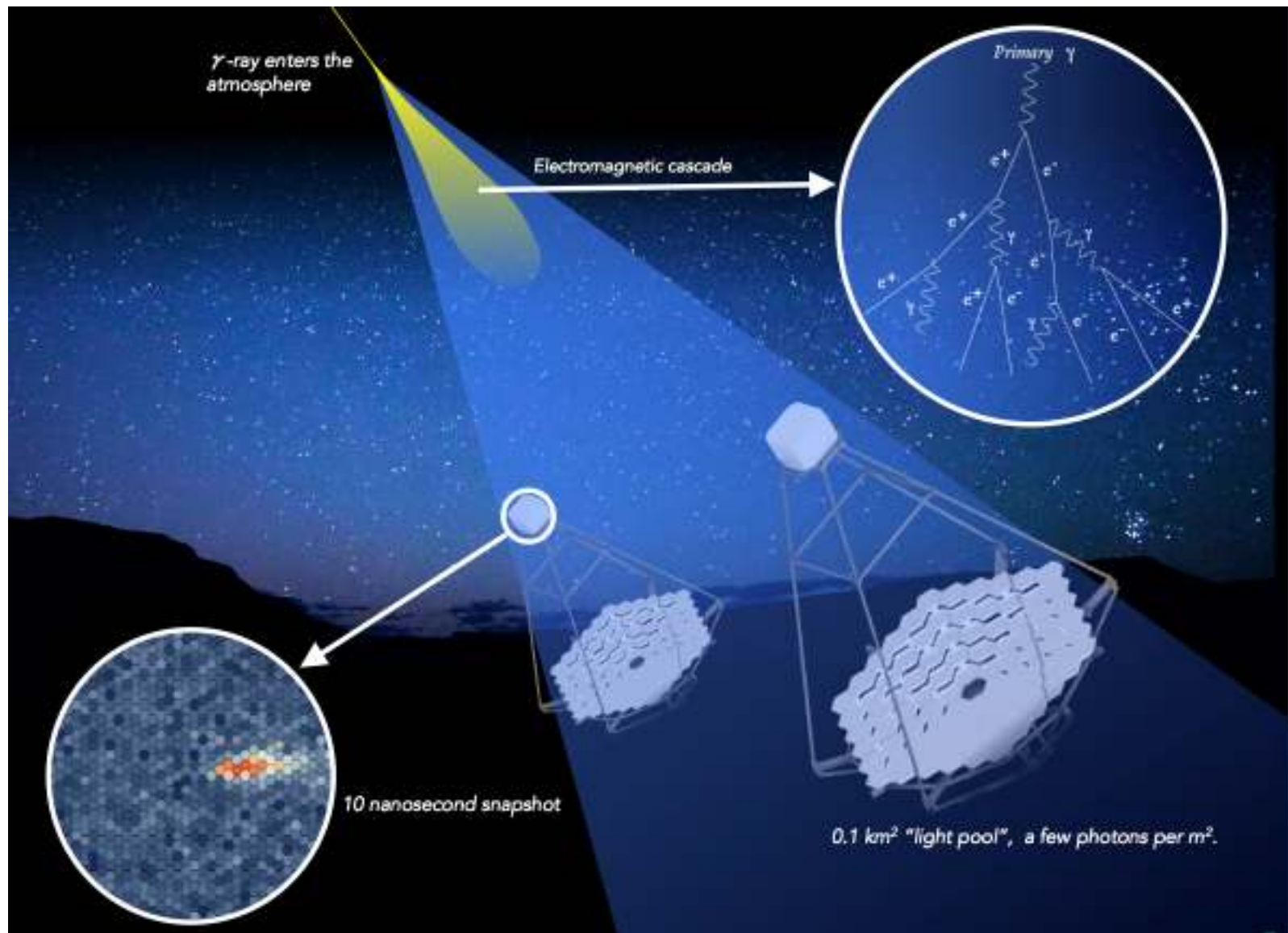
Electromagnetic cascade

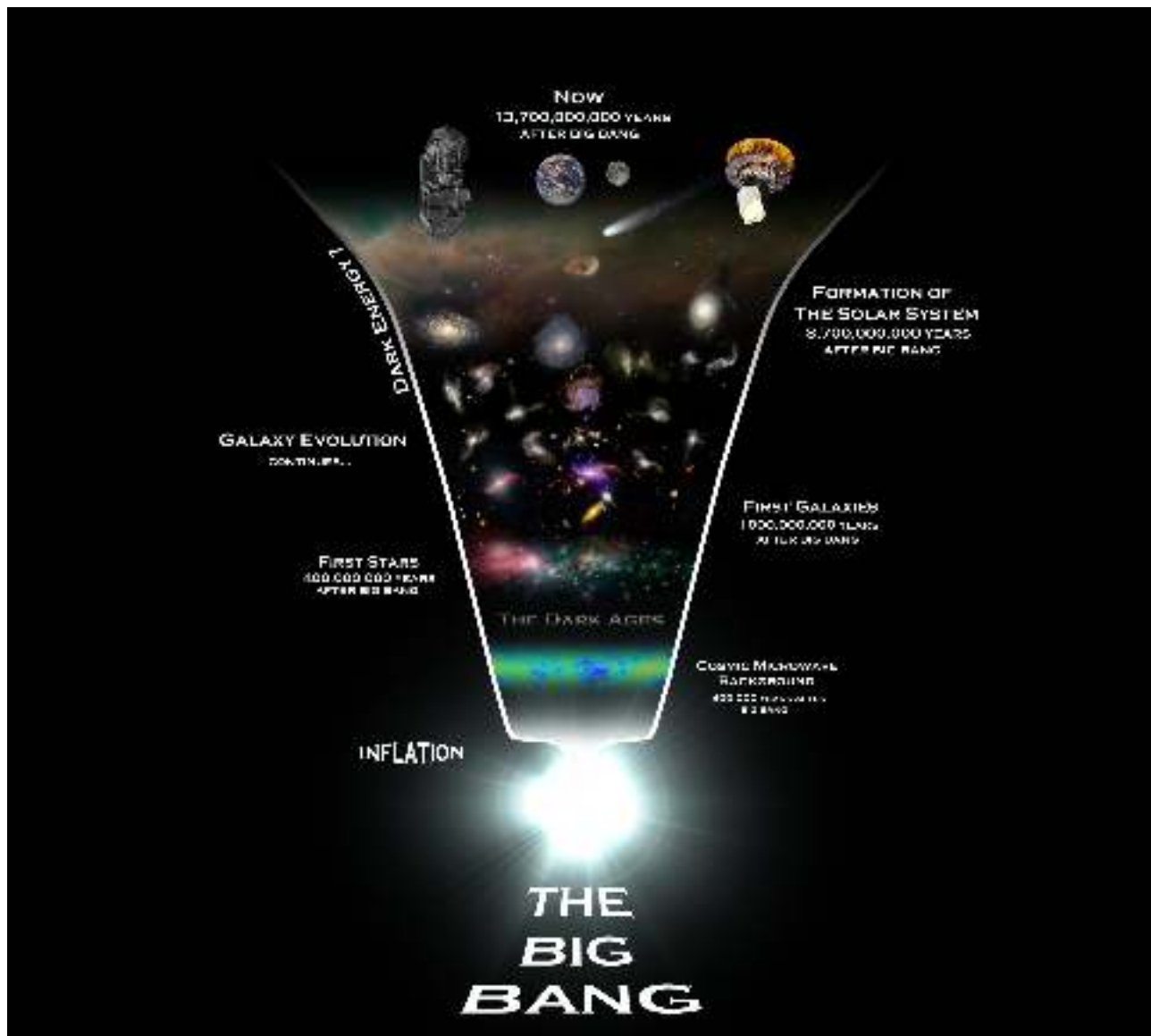
Primary γ

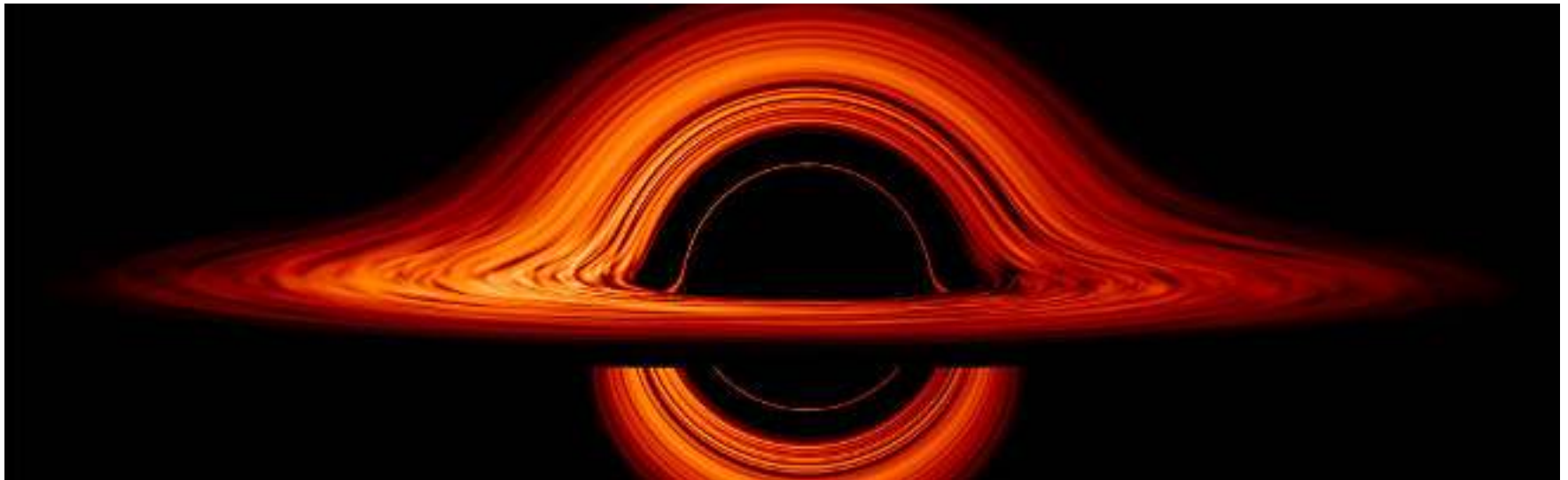


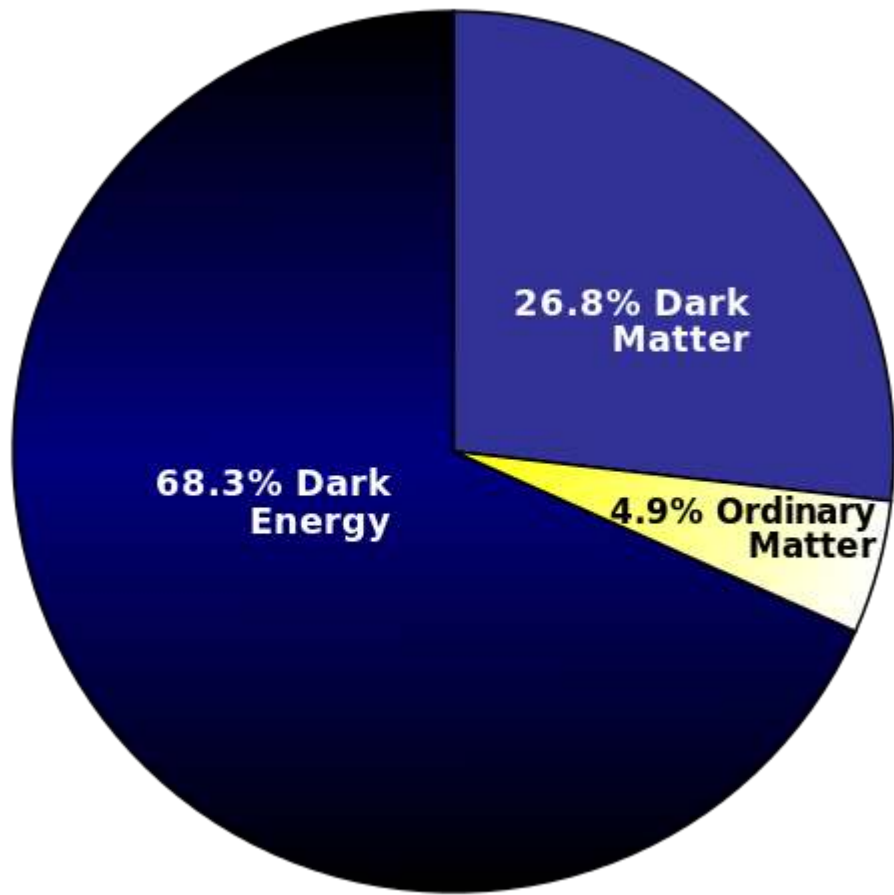
10 nanosecond snapshot

0.1 km² "light pool", a few photons per m².











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