Universal Science - Shining a light on dark matter - Resources and links

Resources used in the presentation

Coffee Vectors by Vecteezy: https://www.vecteezy.com/free-vector/coffee

Milky Way simulation: https://www.youtube.com/watch?v=OltYfc38bn0

How to decorate a dark matter cake: https://www.youtube.com/watch?v=VCvdvh1hCJg

Space-time distortion gif, Abel M'Vada: https://abelmvada.tumblr.com/post/125467092707/i-curve-in-the-presence-of-your-mass

Gravitational lensing gif, James Zanoni, https://jameszanoni.tumblr.com

Simulations of the bullet cluster with different kinds of dark matter: https://www.youtube.com/watch?v=W__AT3RMS-s&list=PL2jx2-_XO34yTxB1NfPJzkgADVSKkhSzK&index=5&t=0s

Galaxy formation simulations were performed at the National Center for Supercomputer Applications

by Andrey Kravtsov (The University of Chicago) and Anatoly Klypin (New Mexico State University).

Visualizations by Andrey Kravtsov.

Axion detergent photo courtesy of Frank Wilczek, https://www.quantamagazine.org/how-axions-may-explain-times-arrow-20160107/

Source of neutrino facts: https://icecube.wisc.edu/news/view/546

IAXO/CAST: https://cerncourier.com/a/iaxo-the-international-axion-observatory/

https://cerncourier.com/a/casts-first-decade-of-solar-axion-research/

Xenon experiment: http://xenon.astro.columbia.edu/XENON100_Experiment/ http://www.xenon1t.org

IceCube experiment: https://sci.esa.int/web/integral/-/60493-icecube-neutrino-detection, https://icecube.wisc.edu

Icons taken from http://www.toicon.com/ , nounproject.com

Extra information:

Gravitational lensing in action: https://www.spacetelescope.org/videos/heic1106a/

Try it at home with a wine glass https://www.youtube.com/watch?v=vLp6CwElGP4

Don Lincoln (Fermilab scientist) explains gravitational lensing: https://www.youtube.com/watch?v=4Z71Rtw0Oas

Symmetry articles on DM: https://www.symmetrymagazine.org/collection/dark-matter-101

ATLAS experiment at the LHC, feature article on dark matter: https://atlas.cern/updates/atlas-feature/dark-matter