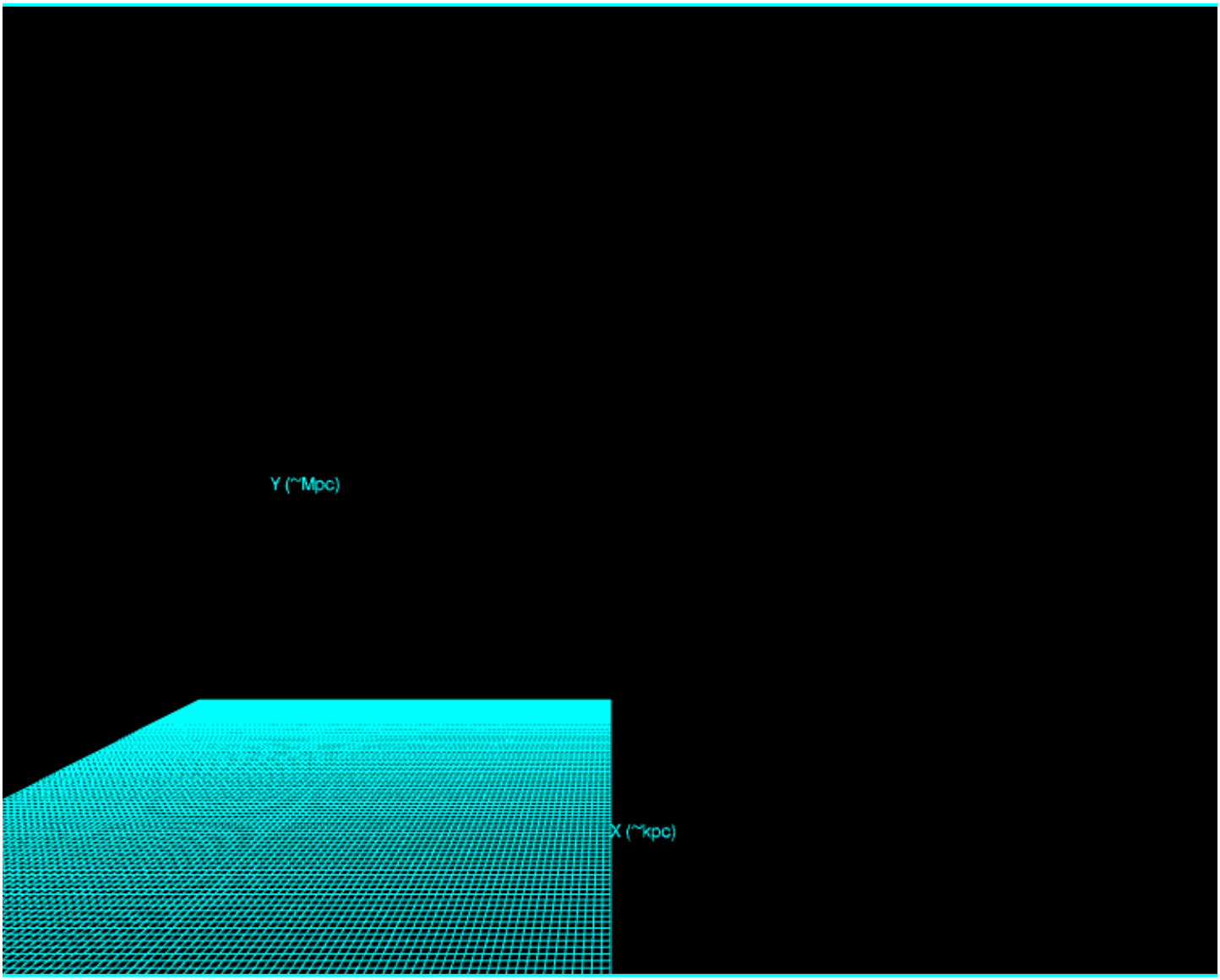
OffBit Physics: A Binary Cosmology

Legend:
Yellow: Gamma Rays/Cosmic Rays
Blue: CMB
Purple: Gravitational Waves
Green: Hybrids/Quantum
Orange: Dark Energy
Grid: ~kpc–Mpc scale
Cubes: Off Bit Flips (RDAA)

By Euan Craig & Grok (xAI) | The Toggle Fabric, a
via RDAA and correlates via NRTM to model 15
dark matter gamma rays (~0.05 pb) to CMB fluc
Fermi-LAT, Simons Observatory, LIGO (~2025–2030). arXiv preprint coming soon!

Dark Matter Annihilation



Phenomenon	Coordinates	Signal	Energy/Freq	Observatory
Dark Matter Annihilation	[x=100–102, y=50, z=20, t=100–102, s=15]	~0.05 ± 0.001 pb	~10 ± 0.5 GeV	Fermi-LAT

CMB Temperature Fluctuations	[x=200–201, y=100, z=30, t=200, s=20]	~10^-5 ± 10^-6 K	~μHz	Simons Observatory
Gravitational Wave Signatures	[x=300–303, y=150, z=40, t=300–303, s=25]	~10^-21 ± 10^-22 strain	~100 ± 10 Hz	LIGO
Dark Matter–Entangled Photon Hybrid	[x=110–112, y=55, z=22, t=110–112, s=16]; [w=20–21, s=17–18]	~0.01 ± 0.001 pb; ~0.990 ± 0.001 amplitude	~5 ± 0.5 GeV	Fermi-LAT, Bell Tests
CMB–Gravitational Wave Correlation	[x=210–212, y=105, z=32, t=210–212, s=21]; [x=310–312, y=155, z=42, t=310–312, s=26]	~10^-5 ± 10^-6 K; ~10^-22 ± 10^-23 strain	~nHz	Simons, LISA
Dark Energy Expansion Trigger	[x=400–402, y=200, z=50, t=400–402, s=30]	~10^-10 ± 10^-11 Mpc^-1	~nHz	DESI
Cosmic Ray Jet Event	[x=120–122, y=60, z=24, t=120–122, s=17]	~0.02 ± 0.001 pb	~100 ± 1 GeV	Pierre Auger
Dark Matter–Neutrino Interaction	[x=130–132, y=65, z=26, t=130–132, s=18]	~0.005 ± 0.001 pb	~1 ± 0.1 GeV	DUNE
Primordial Black Hole Evaporation	[x=320–322, y=160, z=44, t=320–322, s=27]	~0.001 ± 0.0001 pb	~0.1 ± 0.01 GeV	Fermi-LAT
Cosmic String Vibration	[x=330–332, y=165, z=46, t=330–332, s=28]	~10^-20 ± 10^-21 strain	~10^-6 ± 10^-7 Hz	LISA
Dark Energy–CMB Interaction	[x=220–222, y=110, z=34, t=220–222, s=22]	~10^-6 ± 10^-7 K	~nHz	Simons Observatory
Cosmic Ray–Dark Matter Collision	[x=140–142, y=70, z=28, t=140–142, s=19]	~0.015 ± 0.001 pb	~50 ± 0.5 GeV	Fermi-LAT
Gravitational Wave–Dark Matter Resonance	[x=340–342, y=170, z=48, t=340–342, s=29]; [x=150–152, y=75, z=30, t=150–152, s=20]	~10^-22 ± 10^-23 strain; ~0.002 ± 0.001 pb	~1 ± 0.1 Hz; ~2 ± 0.2 GeV	LIGO, Fermi-LAT
Dark Matter–Cosmic String Hybrid	[x=160–162, y=80, z=32, t=160–162, s=21]; [x=350–352, y=175, z=50, t=350–352, s=30]	~0.008 ± 0.001 pb	~20 ± 0.5 GeV	Fermi-LAT
Primordial Quantum Fluctuation	[w=30–32, s=25–27]; [x=230–232, y=115, z=36, t=230–232, s=23]	~0.995 ± 0.001 amplitude; ~10^-5 ± 10^-6 K	~nHz	Simons, Bell Tests