

## Search Results for Physics Beyond the Standard Model with LIGO-Virgo-KAGRA's O1-O4a Observing Runs

*Monday, 20 April 2026 15:55 (25 minutes)*

I will discuss the recently released results on searches of physics beyond the standard model with LIGO-Virgo-KAGRA's most recent O1-O4a observing runs, including searches for cosmological first order phase transitions, cosmic strings, domain wall, primordial black holes, induced gravitational waves, and direct searches for dark matter, etc.

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