



# Update on Run Planning



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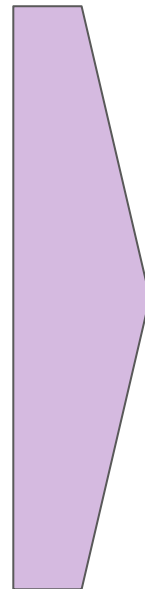
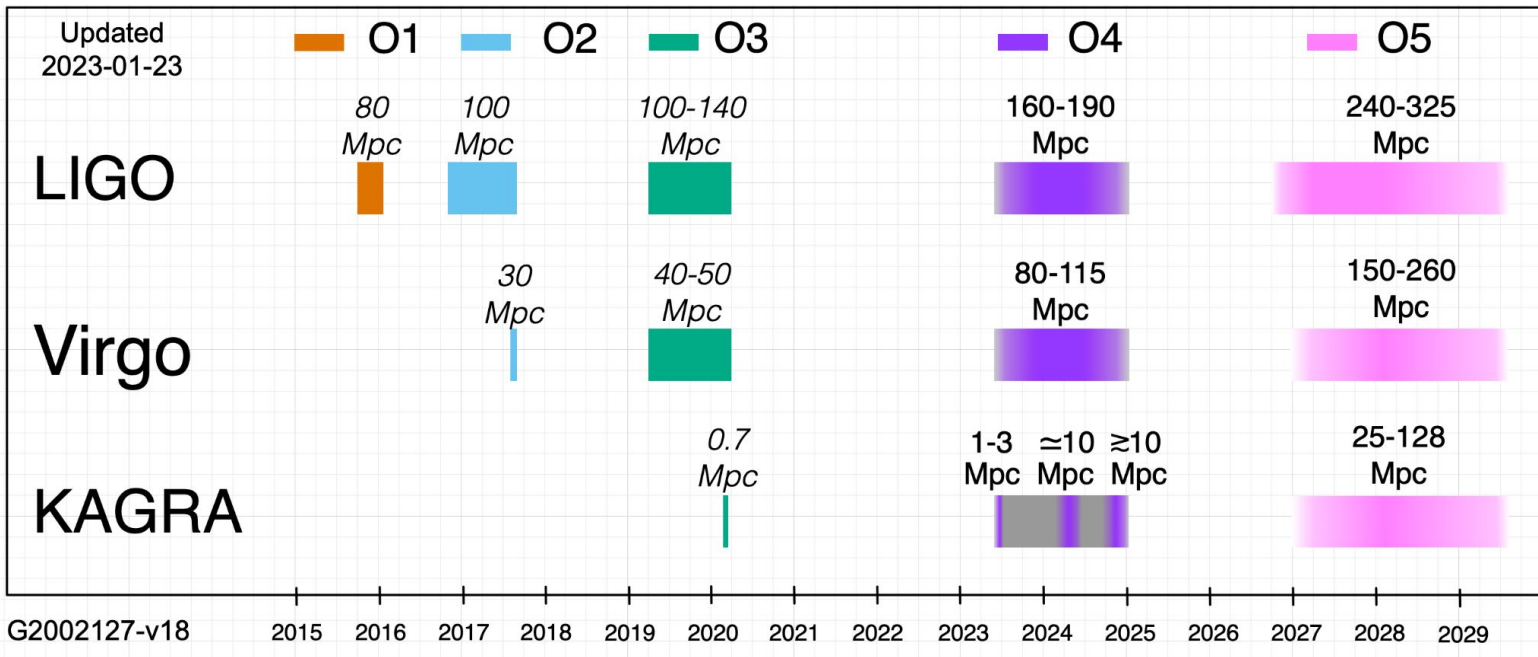


OpenLVKEM Townhall  
30 March 2023

<https://dcc.ligo.org/G2300754>



# Observing plans



LIGO-Virgo-KAGRA anticipate observing to dovetail with next generation facilities

Observing plans are now being maintained at <https://observing.docs.ligo.org/plan/>

## Run plan

- We plan to start the observing run on 24 May 2023
  - this will be preceded by a ~ one-month engineering run.
  - The observing run will be 20 months with up to 2 months of commissioning
- Instrument updates:
  - LIGO commissioning is ongoing. Engineering run ~24 April.
  - Virgo commissioning is ongoing. Decision point in mid April about engineering run start.
  - KAGRA commissioning is ongoing. Decision point in April about engineering run start.
- Important notes:
  - Currently plan to begin streaming alerts during the engineering run
    - Date is subject to internal reviews
    - Use engineering alerts at your own risk

## General information

- OpenLVEM Wiki
  - <https://wiki.gw-astronomy.org/OpenLVEM/>
  - Gateway to more information
- Mailing list
  - Please sign up to the public openlvem mailing list; anyone can subscribe
  - Instructions at <https://wiki.gw-astronomy.org/OpenLVEM>
  - We will use it to announce changes of configuration, plans, etc
- Framework for communications
  - We will arrange online meetings every 4 to 6 weeks to share updates and to hear from others about plans and ideas for using alerts.
  - During O4, we will arrange regular online meetings to provide updates on detector operations, data quality, interpretation of alerts and to discuss any changes in plans. Initially, once a week, settling to once per month or so.



For question time

# Trading Sensitivity and Observing Time

- Crude extrapolation to O4 and O5 assuming BNS range of second most sensitive detector and similar duty cycle and performance to O3.
- Other science
  - Improved SNR
  - New sources?

