

Gravitational waves



Motivation

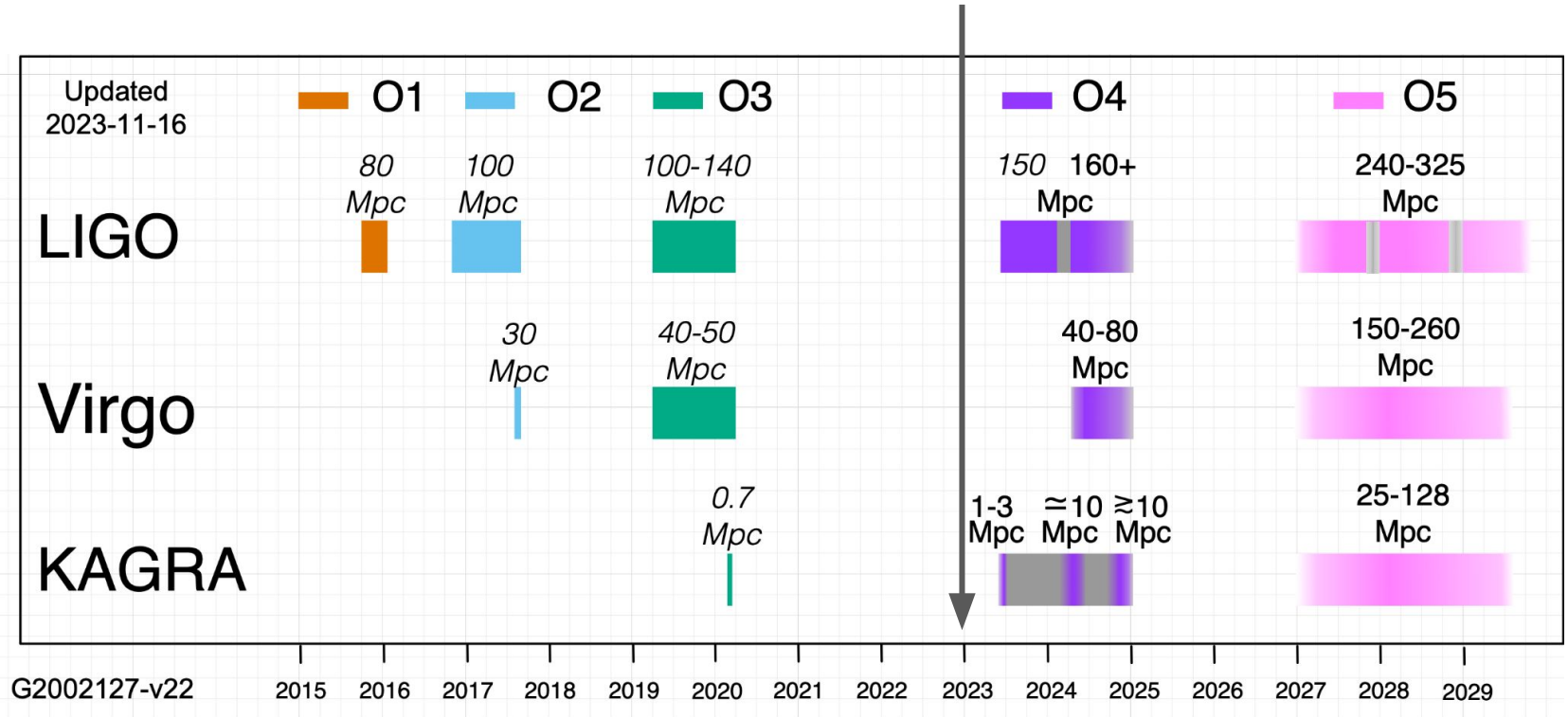
Primordial black holes (PBHs) could have formed from the gravitational collapse of over-densities in the early Universe.

Black holes could form directly from the collapse of particle dark matter in certain dissipative dark matter models

The detection of sub solar mass black holes will open a window to these (and other) possible phenomena.

Right now it is at the limit of the sensibility of current generation of interferometers

Time Frame




Past and current activities

Analysis

UNIVERSIDAD COMPLUTENSE DE MADRID
FACULTAD DE CIENCIAS FÍSICAS

Máster en Física Teórica



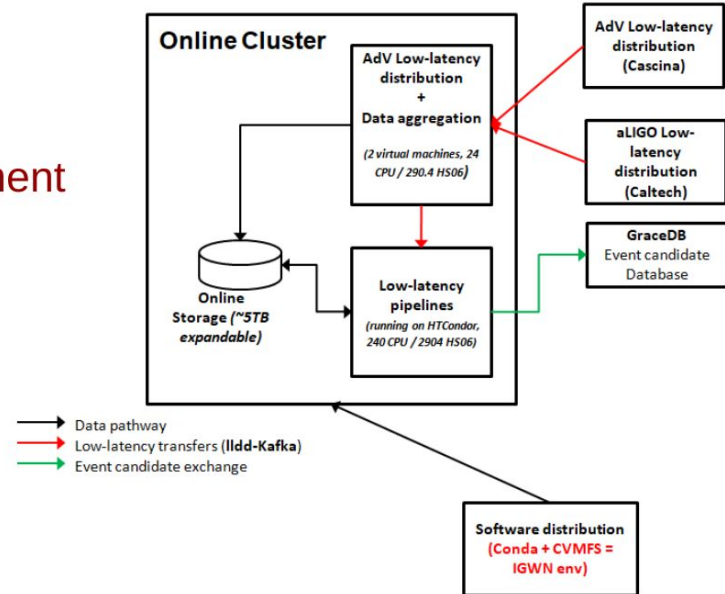
TRABAJO DE FIN DE MÁSTER

Introducción de Inteligencia Artificial en ciencia de ondas gravitacionales a través de Virgo
Introducing Artificial Intelligence in gravitational wave science with Virgo

Daniel Beltrán Martínez

Target logical deployment

Low latency pipeline



Activities

Upgrade of laser input mode cleaner

