

ASPIRE GW Program

Japanese-Australian Bilateral Program
~ Quantum Control for GW Astronomy ~



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Japanese GW project

KAGRA, an underground, 3km long, cryogenic laser interferometer with sapphire mirrors, started operation in 2020, aiming at observation of gravitational waves (GW).



Australian GW project

OzGrav, the gravitational-wave research team in Australia, anticipates to build a new telescope, called **NEMO**, in Australia.



NEMO and KAGRA+

Both **NEMO** and **KAGRA+**, an upgrade plan for KAGRA, aim to observe the first hyper-neutron star generated after the merger of two neutron stars, utilizing quantum control technology.

ASPIRE Bilateral Program

ASPIRE is a JST program with 5M AUD in 5 years. Through the collaboration, starting from Feb 2024, we will discuss a possible joint project to observe GW from hyper NS. We also focus on promotion of young researchers and outreach.

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