

# Discussion on Exotic Science

- What do you think of doing these exotic science with KAGRA?

	<b>Axion DM</b>	<b>Scalar DM</b>	<b>Vector DM</b>	<b>(light) WIMP DM</b>	<b>Inverse square law</b>
Additional instrument required?	Yes (Polarization optics)	No	No	No	Yes (Gcal already at the site!)
Can it be done during GW observation?	Yes	Yes	Yes	Yes	No (Possible in calibration day etc)
More sensitive than LIGO/Virgo/GEO?	At some freqs. (arm length difference / 3 km)	May be not?	At low freqs. (material difference / sapphire)	May be not?	Larger Gcal than LV
Talk in this session	Fujita Oshima, Fujimoto	Stadnik	Fujita	Spinrath	Maarif