

## Research project and supervisor team

<b>Supervisory Team</b>	<a href="#">Prof Jian Yang</a>
<b>Short introduction &amp; description of research project</b>	<p>The success of gravitational wave detectors relies on high-performance vibration suppression devices to mitigate the vibration transmission from the host environment. For instance, the advanced LIGO has high requirement of 3 orders of magnitude reduction of vibration from the background over a wide frequency range. The design of the isolation devices is of great importance, resulting in much research interest in developing and investigation new suppression systems.</p> <p>This project investigates the use of passive and active elements for vibration control. New passive suppression devices including the inerter and nonlinear elements will be considered. In the meantime, novel high-resolution sensors will be developed for high-precision vibration suppression purpose.</p>
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