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## Vortex Array Oscillations and Their Quantization With Reference to Neutron Stars

We investigate the canonical quantization of axial and Tkachenko oscillation modes of a vortex lattice in a rotating superfluid. We explore possible links between classical vortex theory and the works of Fetter and Oczarek & Slupski. This investigation may be relevant to the timing and glitch behaviour of neutron stars.

**Primary author:** Mr KEMP, Garreth (University of Johannesburg)

**Co-authors:** Dr ENGELBRECHT, Christian (University of Johannesburg); Dr FRESCURA, Fabio (University of the Witwatersrand)

**Presenter:** Mr KEMP, Garreth (University of Johannesburg)

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