



Maritime DTU  
Center for Maritime Activities

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## Wave heading estimation based on motion measurements

Type of project: MSc

### Project description:

Past studies have investigated an approach for wave heading estimation based entirely on motion measurements of an advancing vessel. The procedure was formulated in the time domain with partly successful results. This study should extend the current studies by formulating a procedure derived in the frequency domain using spectral analysis, and, as a first attempt, a ship without forward speed can be considered. The modelling could be based on physics (first principles) but a data-driven approach is a priority.

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