The Chair for Wind Power Drives conducts research in the field of the behaviour of drivetrains in modern multi-megawatt wind turbines (WT). Research goals include increasing the availability, robustness and energy efficiency of WTs as well as reducing electricity generation costs. For this purpose, simulation tools and modern system test benches are used in combination.

The research project ReStroK aims to reducing the electricity generation costs by determining the remaining useful life (RUL) of WTs. Turbulence intensity (TI) represents an important parameter influencing the RUL. Several methods already exist for determining the TI. However, these methods require high-resolution measurement data or, in addition to wind speed, further statistical values.

The aim of this thesis is to develop a method to determine the TI using low-resolution wind speed measurements.

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