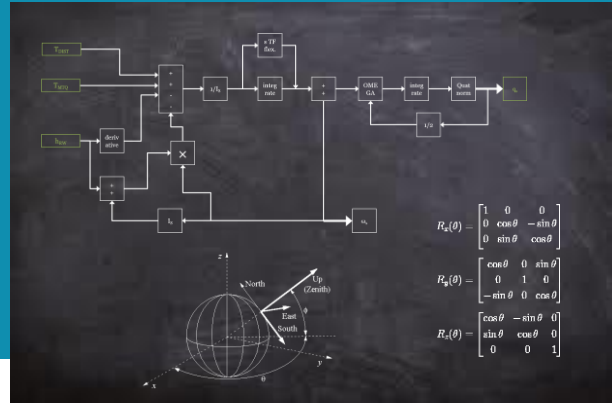


# KU Leuven Pointing Analysis

Complete and Detailed Pointing Analysis for CubeSats

The KU Leuven Pointing Analysis service provides a comprehensive and detailed analysis of the pointing performance of a given CubeSat with the KUL ADCS. The pointing analysis document allows to very clearly showcase the performance of a CubeSat and can be used in reviews or meetings with users.



## Pointing Analysis Features

### Simulation environment

- Spacecraft Dynamics and Kinematics
- Orbit propagation
- Accurate disturbance torques
- Flexible parts can be included (e.g. solar panels)
- Representative sensor and actuator noise (both white and colored noise)

### Analysis modes

- Detumbling
- Thomson-spin
- Inertial 3-axis pointing
- Zenith, Nadir, Sun, LLA, etc. pointing

## Results

- Graphs showing real-time performance over orbits
- Knowledge performance
- Pointing performance
- Power consumption
- Recommendations for the ADCS are given
- Optional: STK attitude files to visualize satellite behaviour
- Optional: Raw data files of the simulations

- ✓ Comprehensive analysis
- ✓ Highly realistic environment
- ✓ Saves time and money

