

## Detection System Performance - Camera topics (QUAREP-LiMi WG 2)

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### Abstract

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The QUAREP-LiMi Working Group 2 “detection system performance” presents its achievements and ongoing work. The current achievements include the first iteration of an agreement between different stakeholders (major scientific camera and/or microscope manufacturers, academia users) on a general metadata model on area detectors. The inherent complexity of agreeing on a simple but general glossary to be used in reporting metadata will be discussed using a couple of example parameters.

The current status of protocols for measuring basic camera parameters such as conversion factors (system gain), read noise, dynamic range, and dark signal non-uniformity (DSNU) will be presented as ongoing work with some practical on-site measurements on microscopes.