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Scattering Meter Calibration Sheet

8/26/2009
Wavelength: 488   S/N BB9-132

Use the following equation to obtain "scaled" output values:

$$\beta(\theta_c) \ m^{-1} \ sr^{-1} = \textcolor{red}{\textbf{Scale Factor}} \ x \ (\textbf{Output - Dark Counts})$$

- **Scale Factor for 488 nm**   =   1.975E-05 $(m^{-1}sr^{-1})$/counts
- **Output**   =   meter reading counts
- **Dark counts**   =   44   counts

  Instrument Resolution   =   1.2   counts   2.34E-05 $(m^{-1}sr^{-1})$

Definitions:

- **Scale Factor**: Calibration scale factor, $\beta(\theta_c)$/counts. Refer to User's Guide for derivation.
- **Output**: Measured signal output of the scattering meter.
- **Dark Counts**: Signal obtained by covering detector with black tape and submersing sensor in water.

Instrument Resolution: Standard deviation of 1 minute of collected data.