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## **[231] Calibration of reflection and back-scattering Mueller Polarimetric setups**

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Mueller Polarimetry is a technique that can differentiate areas with distinct optical structures, such as tumorous and healthy tissue, or identify complex optical structures like fiber orientation in the brain. The well-established calibration methods of Mueller Polarimetric setups in transmission cannot be straightforwardly applied to reflection or back-scattering configurations. In our presentation, we provide a brief overview of the development of Mueller Polarimetric setups, and we demonstrate the implementation of a calibration procedure utilizing a novel configuration of reference samples. This approach enhances accuracy compared to standard methods, as demonstrated in our results.

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