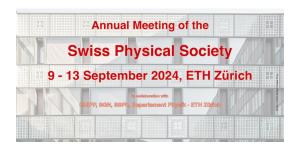
Annual Meeting of the Swiss Physical Society 2024



Contribution ID: 89 Type: Poster

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

Tuesday 10 September 2024 19:45 (1 minute)

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.

Authors: SINGH, Bhanu Pratap (Institute of Applied Physics, University of Bern, Switzerland.); STEFANOV, Vladislav (Institute of Applied Physics, University of Bern); STEFANOV, Andre (Institute of Applied Physics, University of Bern)

Presenter: SINGH, Bhanu Pratap (Institute of Applied Physics, University of Bern, Switzerland.)

Session Classification: Poster Session

Track Classification: Applied Physics; Plasma Physics