DGK conference 2022



Contribution ID: 32 Type: Talk

Ultra-fast multi-wavelength pyrometer for high temperature measurements

Tuesday, 15 March 2022 09:00 (20 minutes)

A common approach to deal with the unknown surface emissivity is to measure the thermal emission at multiple wavelengths –an approach called multi-wavelength pyrometry. Our new pyrometer uses 8 wavelengths from 600 to 1500 nm and different types of detectors, such as photodiodes and Multi Pixel Photon Counters (MPPC). This allows one to measure the temperature in a broad temperature range up to a few thousand Kelvins with high temporal resolution up to nanoseconds.

Primary authors: Prof. WINKLER, Björn (Goethe-Universität Frankfurt am Main); Dr BAYARJARGAL, Lkhamsuren (Goethe-Universität Frankfurt am Main); BELIKOV, Roman (Goethe-Universität Frankfurt am Main); Dr VARENTSOV, Dmitry (GSI Helmholtzzentrum für Schwerionenforschung)

Presenter: BELIKOV, Roman (Goethe-Universität Frankfurt am Main) **Session Classification:** Advances in Methods and Techniques

Track Classification: Main conference: Advances in Methods, Instrumentation and Data Analy-

sis