Contribution ID: **147** Type: **Oral**

Broadband continuum generation by double-stage hybrid multi-pass multi-plate spectral broadening

Tuesday, 30 August 2022 18:45 (10 minutes)

We report the compression of 1 ps duration, 112 muJ energy pulses from an YbYAG amplifier to 11 fs and the generation of an octave-spanning spectrum by two hybrid multi-pass multi-plate spectral broadening stages. Both, the compression factor and the output pulse duration set new records for bulk multi-pass cells.

Primary authors: SEIDEL, Marcus (Deutsches Elektronen-Synchrotron DESY, Hamburg); VIOTTI, Anne-Lise (Deutsches Elektronen-Synchrotron DESY, Hamburg); LI, Chen (Deutsches Elektronen-Synchrotron DESY, Hamburg); WINKELMANN, Lutz (Deutsches Elektronen-Synchrotron DESY, Hamburg); HARTL, Ingmar (Deutsches Elektronen-Synchrotron DESY, Hamburg); HEYL, Christoph M. (Deutsches Elektronen-Synchrotron DESY, Hamburg)

Presenter: SEIDEL, Marcus (Deutsches Elektronen-Synchrotron DESY, Hamburg)

Session Classification: Postdeadline Session