

few-cycleTM HYPUS-blue

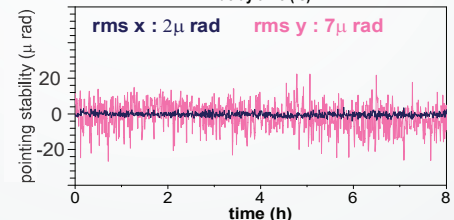
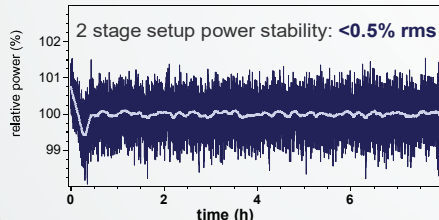
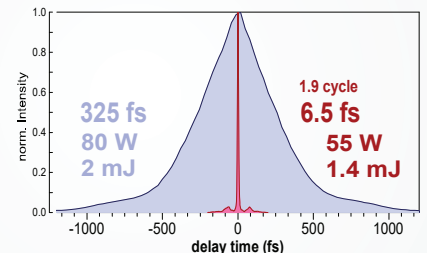
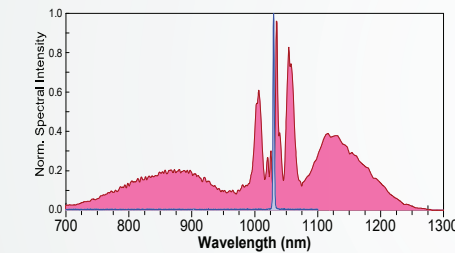
- different solutions

General Features of HCFs

- input energy tuning 0.2mJ - 2mJ*
- > 10 fold pulse compression
- up to 100mJ input energy
- no active cooling up 100W
- up to 250W input (air cooled)

*compressed pulse duration can be preserved if ONLY the input energy is varied

Double Stage - 50 fold compression with > 65% Transmission @ 80W, 2mJ



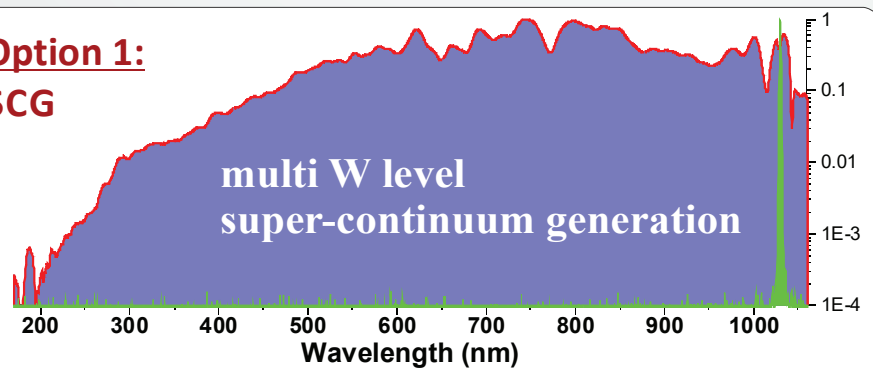
HYPUS - HYPerspectral Ultrafast Source

derived from the broadband few-cycle input

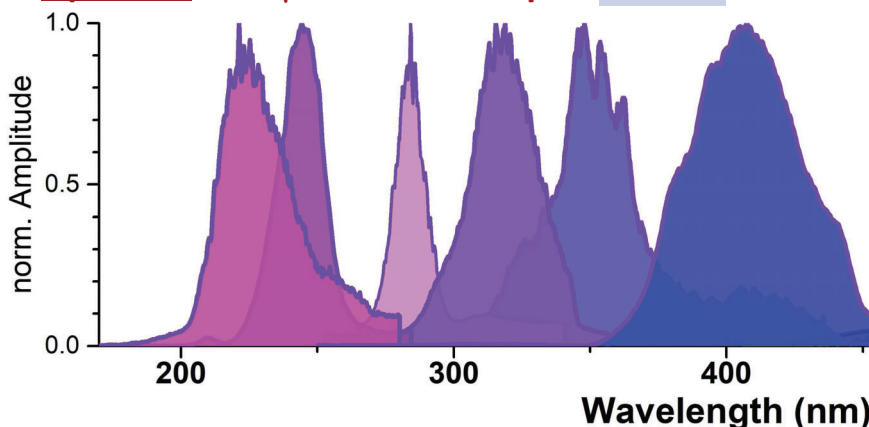
Up-conversion options

- 1) >100uJ super-continuum generation in 1m HCF
- 2) Resonant dispersive wave RDW generation with ~5% efficiency up 120 kHz repetition rate
- 3) Tunable SHG of few-cycle input

Option 1: SCG



Option 2: 5-10 μJ level RDW up to 120 kHz



Option 3: >100uJ, sub 50fs SHG

