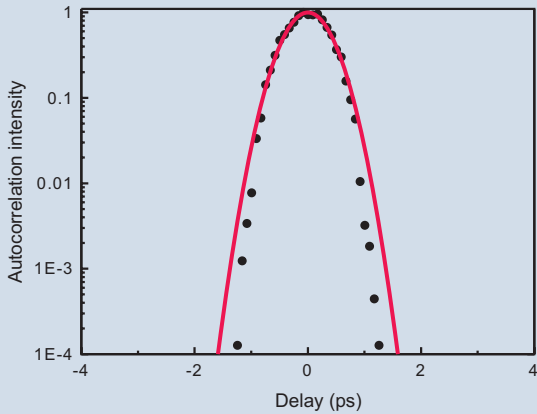




MODEL 530

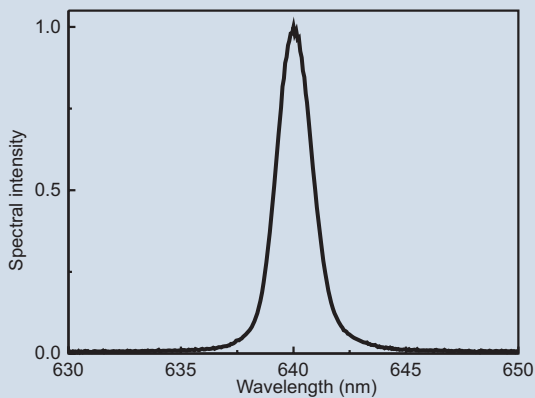
TYPICAL SIGNAL PULSE OF TOPAS 4/527 PUMPED WITH 1-PS PULSES

FWHM = 620 fs



TYPICAL SIGNAL PULSE SPECTRUM OF TOPAS 530 PUMPED WITH 1-PS PULSES

FWHM = 32 cm⁻¹



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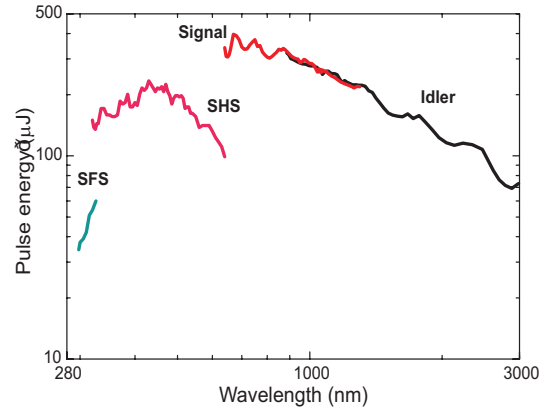
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LIGHT CONVERSION

TYPICAL OUTPUT PERFORMANCE OF TOPAS 530 PUMPED WITH 2mJ, 527 nm, 1.1 ps



PUMP: SECOND-HARMONIC of TWINKLE (LIGHT CONVERSION)

Energy	2 mJ
Pulse width (FWHM)	1 ps
Spectral width	25 cm ⁻¹
Energy instability	< 3% pulse-to-pulse
Beam divergence	< 1.3 of diffraction limit

PERFORMANCE SPECIFICATIONS WITH 2 mJ/1 ps PUMP PULSES

OUTPUT FROM TOPAS

Tuning range (signal+idler)	640-2600 nm
Energy (signal+idler)	> 0.5 mJ at peak
Pulse duration	(0.5 to 1.0) x pump pulse width
Time-bandwidth product	< 1
Beam divergence	< 2 x diffraction limit
Energy instability	< 5% rms
Polarization	signal wave (640-1055 nm) vertical idler wave (1055-3000 nm) horizontal

OUTPUT FROM OPTIONAL SECOND-HARMONIC GENERATOR

Tuning range	320-527 nm (SHS)	527-640 nm (SHI)
Pulse energy	> 50 μJ at peak	
Time-bandwidth product	< 1	
Pulse duration	(0.7 to 1.0) x pump pulse width	
Polarization	horizontal(320-527nm) vertical (527-640nm)	

OUTPUT FROM OPTIONAL SUM-FREQUENCY GENERATOR*

Tuning range	285-350 nm
Pulse energy	> 50 μJ at peak
Time-bandwidth product	< 1
Pulse duration	(0.7 to 1.0) x pump pulse width
Polarization	horizontal

OUTPUT FROM OPTIONAL DIFFERENCE-FREQUENCY GENERATOR**

Tuning range with DFG#1	2.6-11 μm
Pulse energy	> 5 μJ @ 10 μm
Tuning range with DFG#2	4.5- 20 μm
Pulse energy	> 5 μJ @ 10 μm
Time-bandwidth product	< 1
Pulse duration	(0.7 to 1.0) x pump pulse width
Polarization	horizontal

Beam divergence with all options <2 x diffraction limit

* Sum-frequency generator mixes pump (527 nm) and signal pulses

** Difference-frequency mixer outputs are specified for (3 mJ @ 1055 nm)-idler pulses

Note: with increased pump energy TOPAS output energy scales up linearly