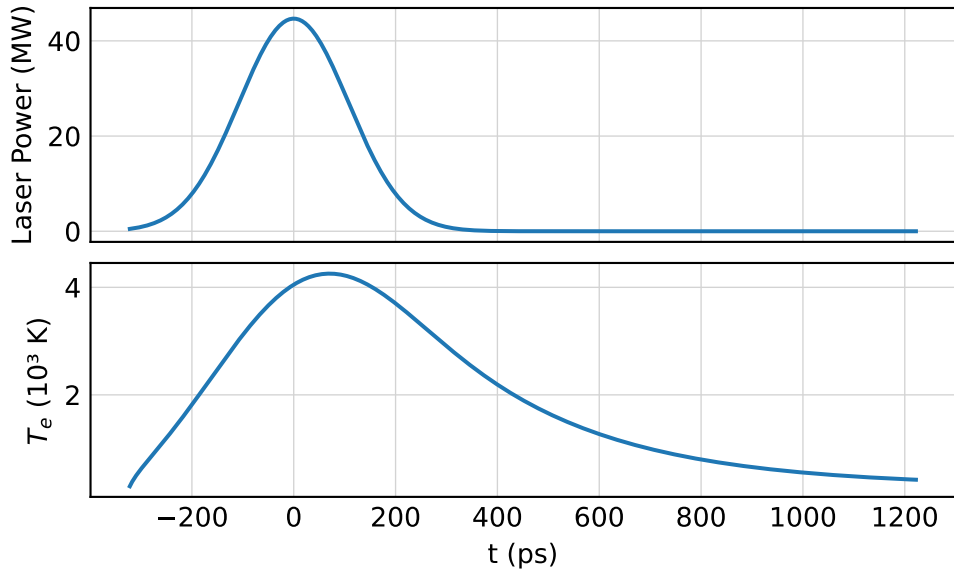
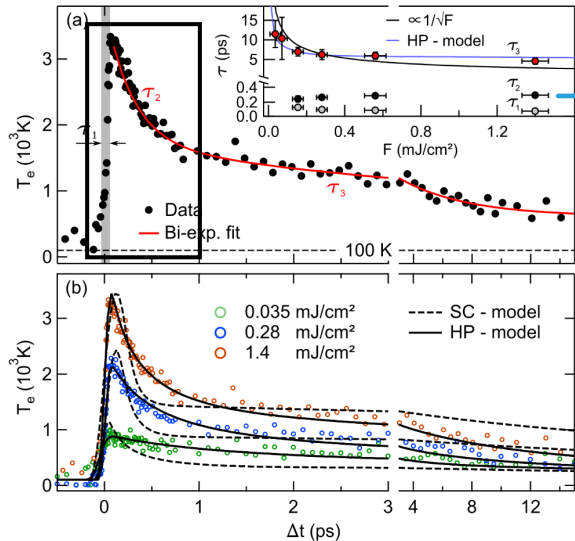
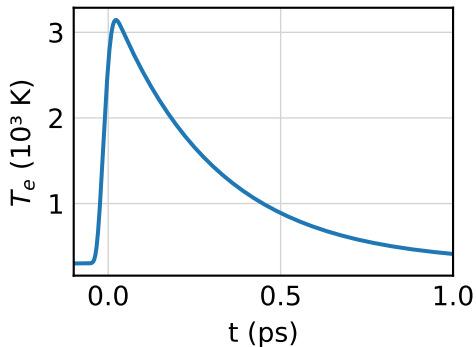


# Thermal Radiation of Hot Electrons

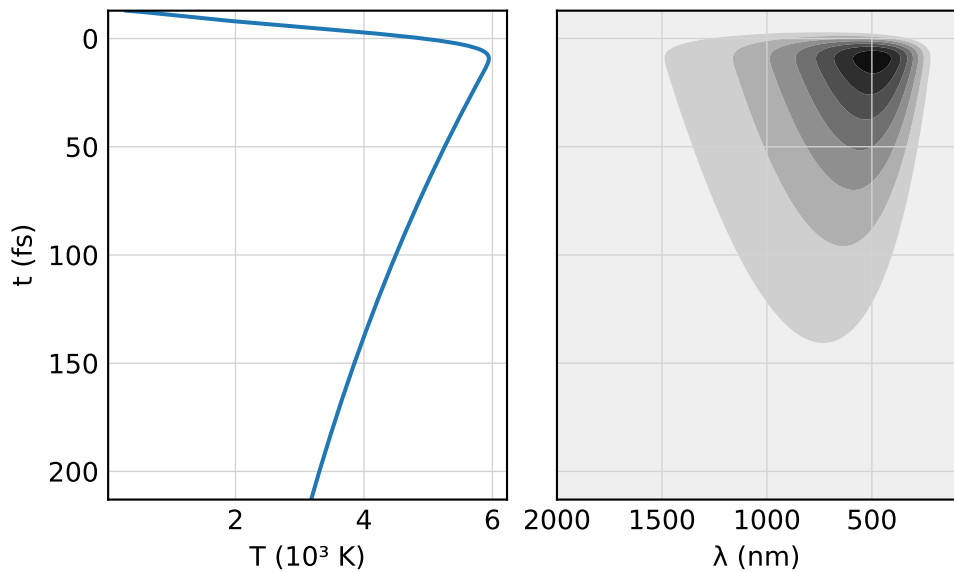
Leon Oleschko  
07.04.2025



# Validation

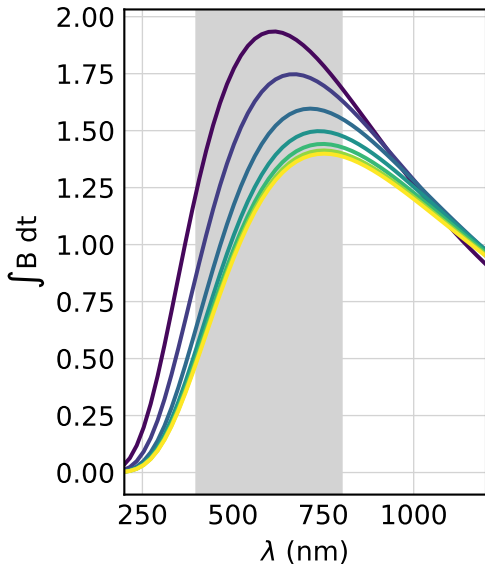
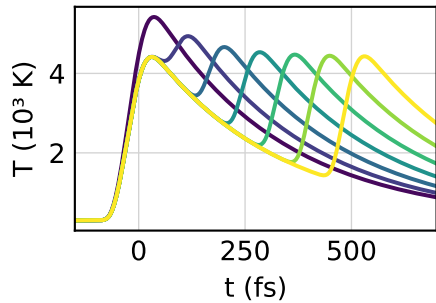
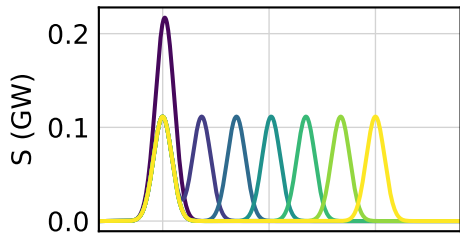


"Hot electron cooling in graphite", Stange et al. 2015 (Fig. 4)

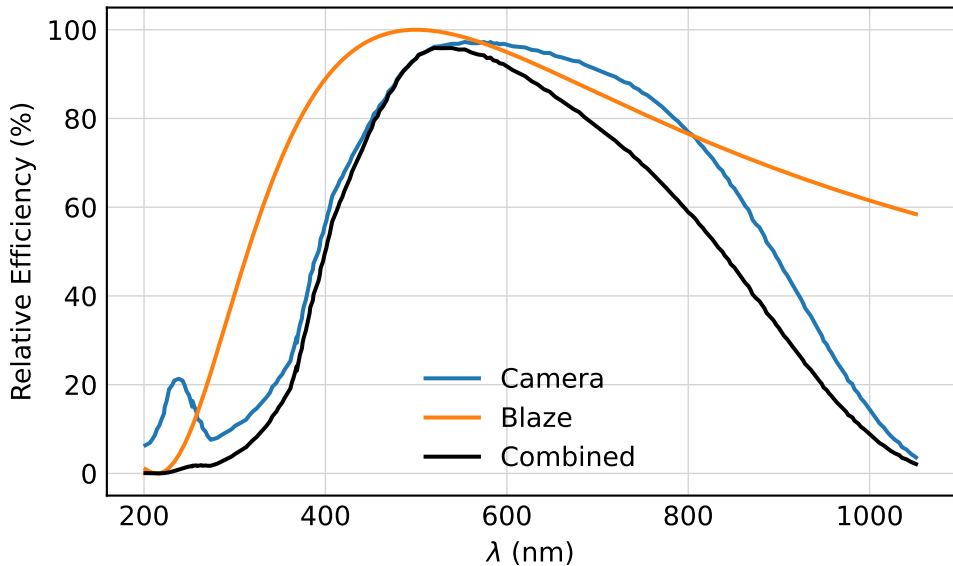


Thermal radiation after 50 fs Laser pulse

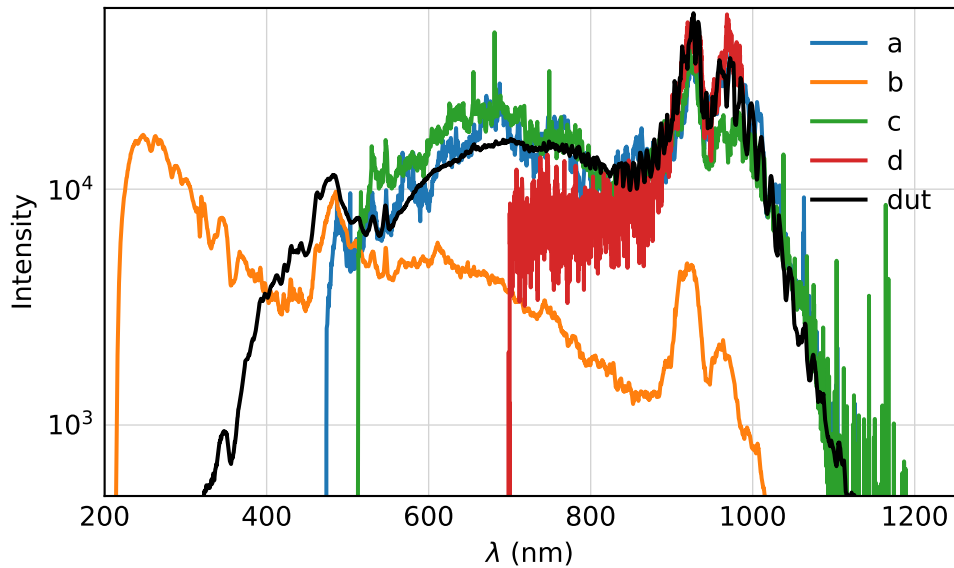
Best Streak Cameras have resolutions of 180 fs. [Wikipedia: Streak Camera]



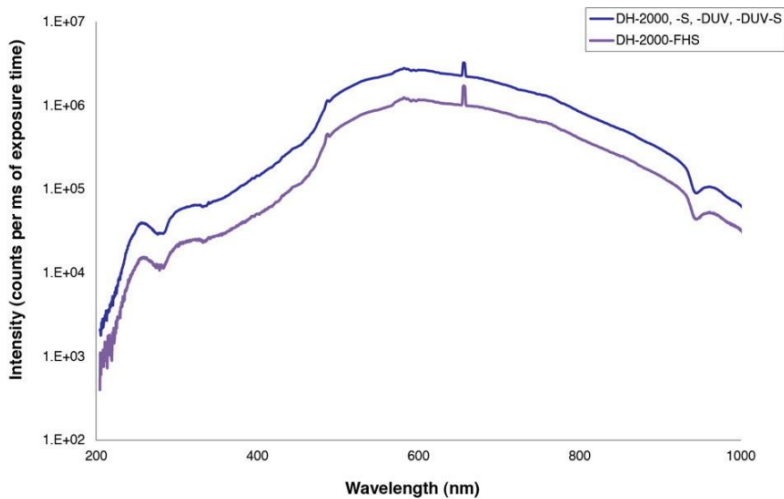
Consecutive 50 fs Laser pulses



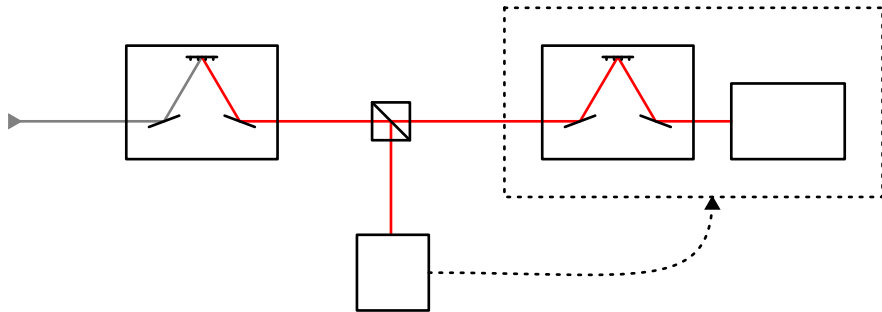
*"Ripple correction of high-dispersion IUE spectra - Blazing echelles", Barker 1984*

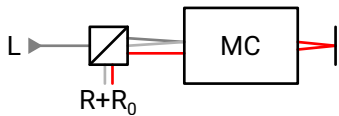
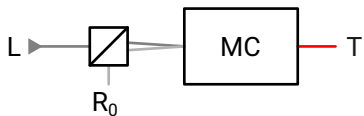


## DH-2000 Deuterium Tungsten Halogen Spectral Output









Assuming MC is symmetric

$$\eta_{\rightarrow} = \eta_{\leftarrow}:$$

$$T = \eta L$$

$$R = \eta^2 L$$

$$\rightarrow \eta = R/T$$

