

Roy's Question

Do a back of envelope calculation to work out the electric field strength of:

- a 10 mW laser pointer with a spot of 5 mm size;
- A 1 μ J, 1 ps pulse with a focal spot diameter of 10 μ m

- Under what condition are you able to spectrally filter a pulse (i. e. make the bandwidth smaller) and obtain a shorter pulse;

- You have seen optical wave breaking for an ocean wave – how does this manifest itself in optical regime?

- Grating pairs are used to achieve temporal compression – how would you obtain spectral compression?

Scott's Question

What determines the frequency width of the teeth in a frequency comb?