

Demonstration 72.54 – Inductor spark

$$U_B = (1/2)Li^2$$

$$V = 43 \text{ V} \Rightarrow i = V/R = 43 \text{ V}/2.61 \text{ } \Omega = 16.5 \text{ A}$$

$$U_B = (1/2)(0.16 \text{ H})(16.5 \text{ A})^2 = 22 \text{ joules}$$

