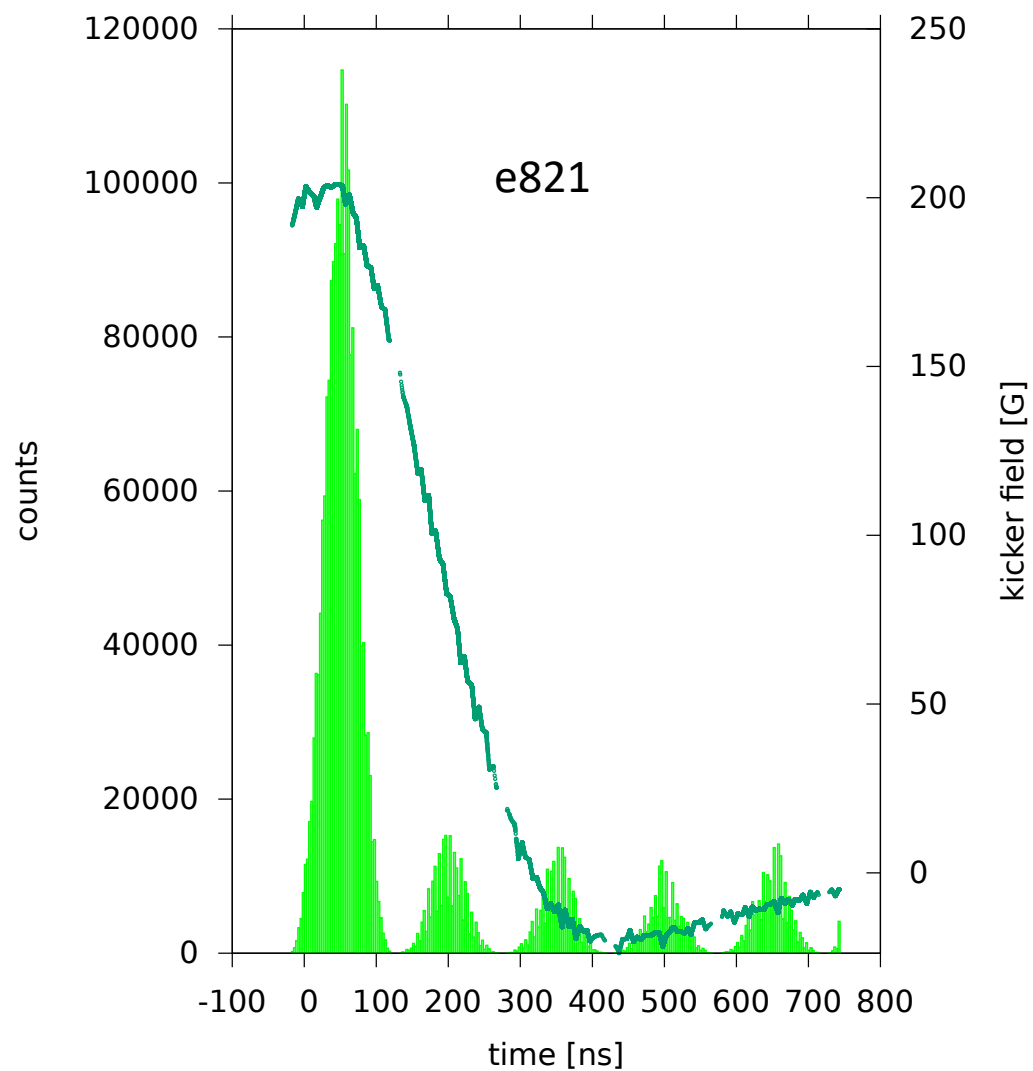
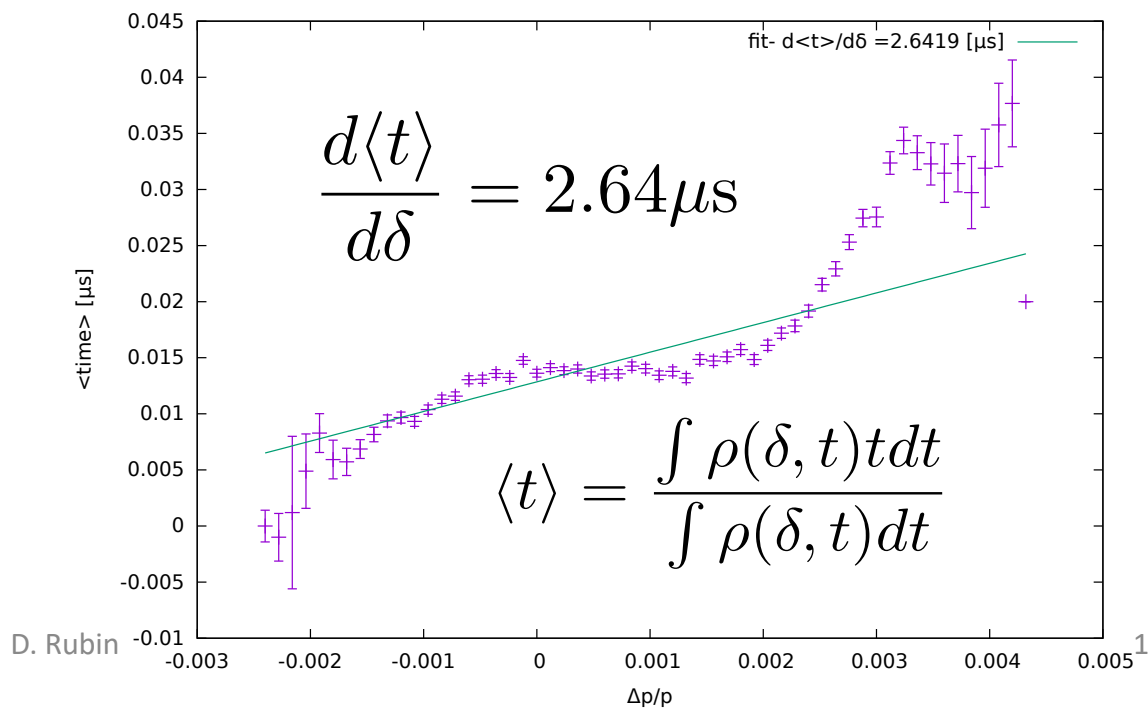
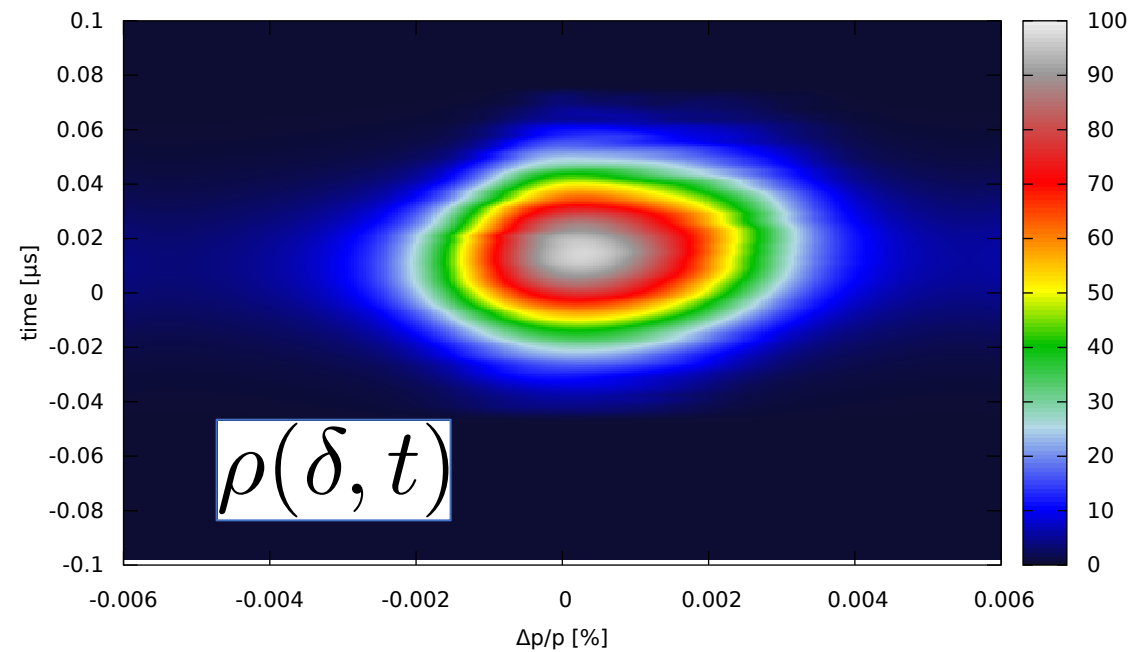




11/14/22



E821

$B_k = 204 \text{ G}$

$$\Delta\phi_a = \omega_a \Delta t$$

$$\Delta\omega_a = \frac{d\langle\phi_a\rangle}{d\gamma} \frac{d\langle\gamma\rangle}{dt} = \frac{d\langle\phi_a\rangle}{d\delta} \frac{1}{\gamma} \frac{d\langle\gamma\rangle}{dt} = \omega_a \frac{d\langle t\rangle}{d\delta} \frac{1}{\gamma} \frac{d\langle\gamma\rangle}{dt}$$

$$\frac{\Delta\omega_a}{\omega_a} = \frac{d\langle t\rangle}{d\delta} \frac{1}{\gamma} \frac{d\langle\gamma\rangle}{dt}$$

$$\frac{d\langle\gamma\rangle}{dt} \sim \frac{\sigma^2}{\mu^2\tau} \sim 5.6 \times 10^{-7} \frac{1}{\mu\text{s}}$$

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$$\frac{d\langle t\rangle}{d\delta} = 2.64\mu\text{s}$$

$$\frac{\Delta\omega_a}{\omega_a} = 50 \text{ ppb}$$