

Wall stops

■ Estimate dangerous level

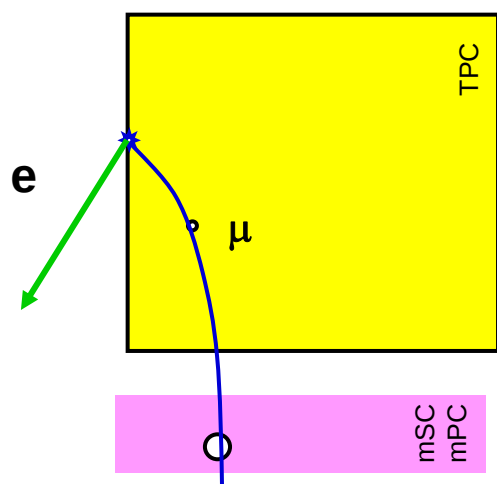
$$n(t) = e^{-\lambda t} (1 + \alpha e^{-r t})$$

$$\frac{\Delta\lambda}{\lambda} = \alpha \frac{r}{\lambda} \quad (\text{first order})$$

α so that $\delta\lambda/\lambda < 10$ ppm

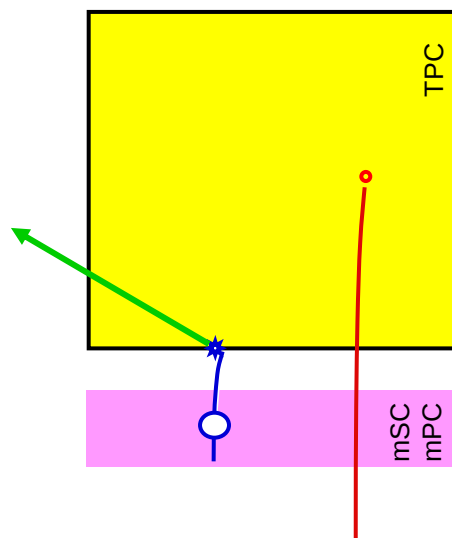
	Λ_c	r/λ	$\alpha(\text{ppm})$
Be	0.01	0.0219	455.0
C	0.044	0.0967	103.4
Al	0.7	1.5384	6.5
Si	0.8	1.7582	5.7
Fe	4.4	9.6703	1.0

■ Sources + Diagnostics (quantify)



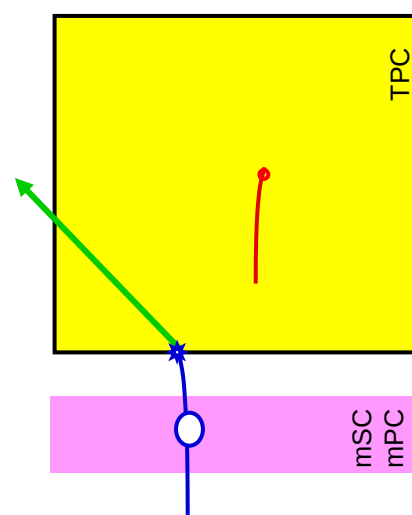
TPC misreconstruction

different fiducial cuts
 μ +p scattering estimate
 capture spatial distribution
 TPC MWPC hit fraction
 λ of e tracks outside TPC



undetected pile-up

λ vs. μ PU rejection eff.
 $1e$ vs all e fits



noise in TPC

λ vs. IsStop definition
 capture spatial distribution
 IsStops without μ SC/ μ PC

global

- start time fit
- fit with wall stop time distribution
- λ vs. impact par