Time Resolution:
$$\begin{bmatrix} 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} \sigma^2(RPC) \\ \sigma^2(SC1) \\ \sigma^2(SC2) \end{bmatrix} = \begin{bmatrix} \sigma^2(\Delta \text{ (RPC, SC1)}) \\ \sigma^2(\Delta \text{ (RPC, SC2)}) \\ \sigma^2(\Delta \text{ (SC1, SC2)}) \end{bmatrix}$$

$HV ON \rightarrow Sem Slewing Correction$

$$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} \sigma^2(RPC) \\ \sigma^2(SC1) \\ \sigma^2(SC2) \end{bmatrix} = \begin{bmatrix} 152^2 \\ 182^2 \\ 202^2 \end{bmatrix}$$

$$\sigma^2(RPC) = 87.8180^2$$

 $\sigma^2(SC1) = 124.0645^2$
 $\sigma^2(SC2) = 159.4114$

$HV ON \rightarrow Com Slewing Correction$

$$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} \sigma^2(RPC) \\ \sigma^2(SC1) \\ \sigma^2(SC2) \end{bmatrix} = \begin{bmatrix} 118^2 \\ 170^2 \\ 176^2 \end{bmatrix}$$

$$\sigma^2(RPC) = 76.9675^2$$

 $\sigma^2(SC1) = 89.4427^2$
 $\sigma^2(SC2) = 151.5784^2$

$HV_{top}OFF \rightarrow Sem Slewing Correction$

$$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} \sigma^{2}(RPC) \\ \sigma^{2}(SC1) \\ \sigma^{2}(SC2) \end{bmatrix} = \begin{bmatrix} 121^{2} \\ 197^{2} \\ 201^{2} \end{bmatrix}$$

$$\sigma^2(RPC) = 80.7744^2$$

 $\sigma^2(SC1) = 90.0916^2$
 $\sigma^2(SC2) = 179.6789^2$

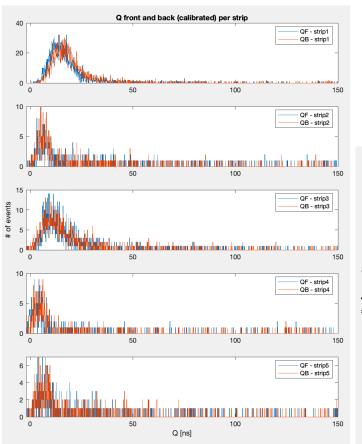
$HV_{top}OFF \rightarrow Com\ Slewing\ Correction$

$$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{bmatrix} \begin{bmatrix} \sigma^{2}(RPC) \\ \sigma^{2}(SC1) \\ \sigma^{2}(SC2) \end{bmatrix} = \begin{bmatrix} 111^{2} \\ 180^{2} \\ 180^{2} \end{bmatrix}$$

$$\sigma^2(RPC) = 78.4889^2$$

 $\sigma^2(SC1) = 78.4889^2$
 $\sigma^2(SC2) = 161.9861^2$

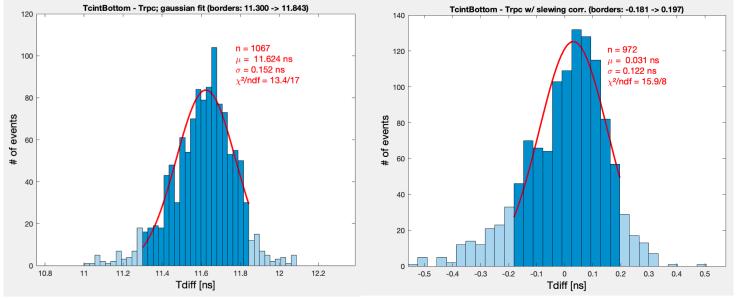
HV - ONEfficiency = 97.7954%



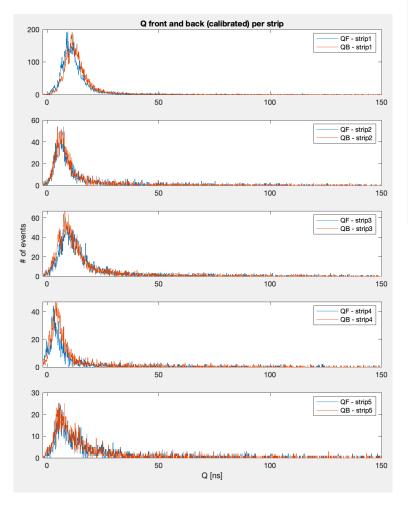
Eff = numberSeenEvents * 100 / numberGoodEvents;

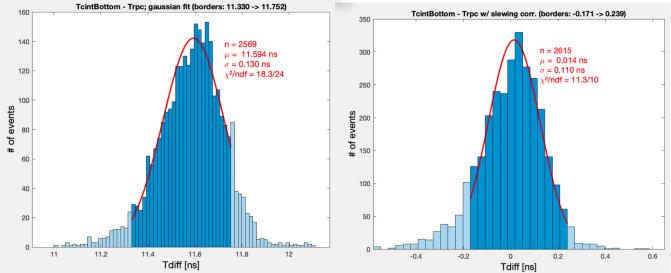
numberGoodEvents: número de eventos **bons**, ou seja, com tempos válidos nos 4 cintiladores.

number Seen Events: quantos desses eventos bons também foram
 ${\bf vistos}$ ${\bf pela}$ ${\bf RPC}$

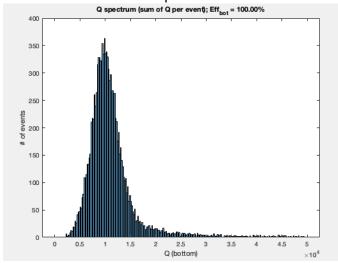


 HV_{top} OFF Efficiency =75.9053%





Todos os eventos nas strips finas de baixo



Análise dos eventos rejeitados, ou seja, resposta nas strips finas aos eventos rejeitados nas gordas. Não parece haver nenhum problema.

