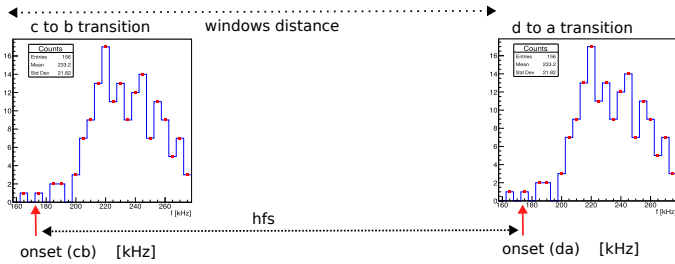


Scheme of a "Trial" (4b scenario)

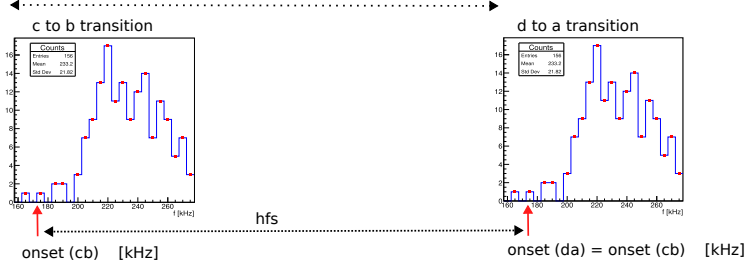
ECR + LOW STATISTIC ATTEMPT FOR START POINT OF THE SWEEP

-> Run 0 (first repetition)



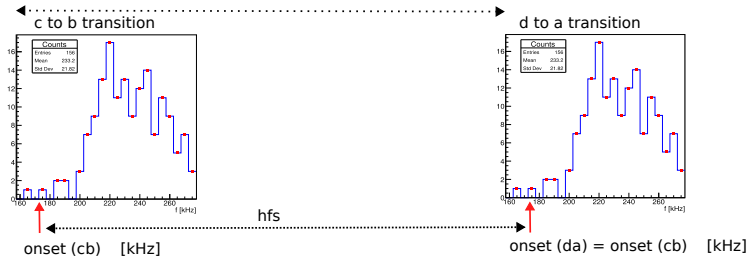
Δt

-> Run 1 (or first repetition)



Δt
...
 Δt

-> Run 5 (or first repetition)



Δt^* = time between c-b and d-a sweep

Δt = time between repetition

Bdrift in kHz/second

$$\text{onset}_{cb}(t) = \text{onset}_{cb}(t = 0)$$

$$\text{onset}_{da}(t + \Delta t^*) = \text{onset}_{cb}(t = 0) + \text{hfs} - \text{Bdrift} \cdot \Delta t^*$$

$$\text{onset}_{cb}(t + \Delta t) = \text{onset}_{cb}(t = 0) - \text{Bdrift} \cdot \Delta t$$

$$\text{onset}_{da}(t + \Delta t + \Delta t^*) = \text{onset}_{cb}(t = 0) + \text{hfs} - \text{Bdrift} \cdot (\Delta t + \Delta t^*)$$

...

$$\text{onset}_{cb}(t + 4\Delta t) = \text{onset}_{cb}(t = 0) - \text{Bdrift} \cdot 4\Delta t$$

$$\text{onset}_{da}(t + 4\Delta t + \Delta t^*) = \text{onset}_{cb}(t = 0) + \text{hfs} - \text{Bdrift} \cdot (4\Delta t + \Delta t^*)$$