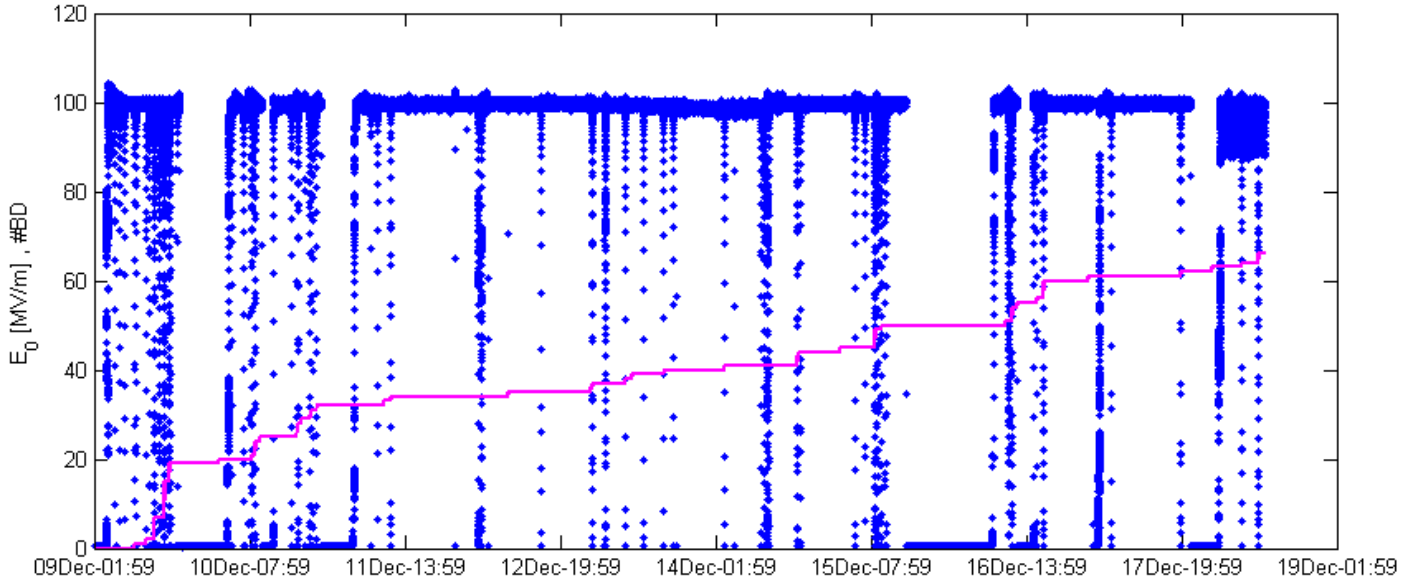
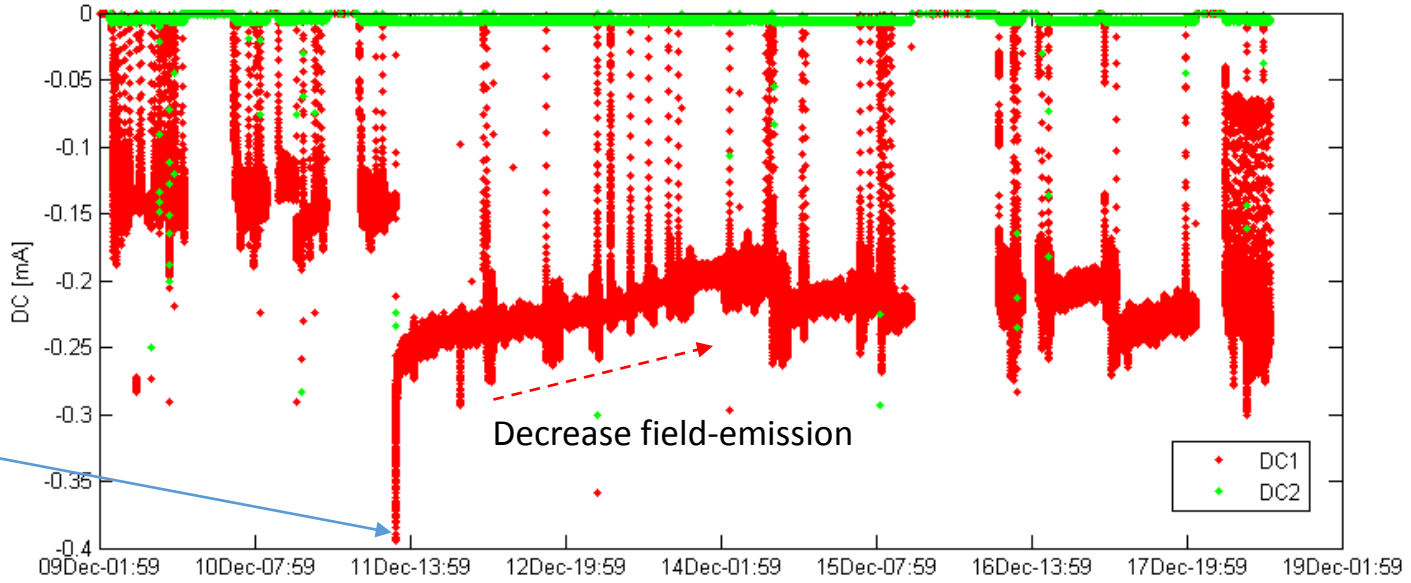
# TD26CC history

Run at 100 MV/m
32 M pulses

66 BDs in the structure
(+32 KREF BD discarded)

Odd event:
BD #34 causes higher field emission (double) when returns to 100MV/m

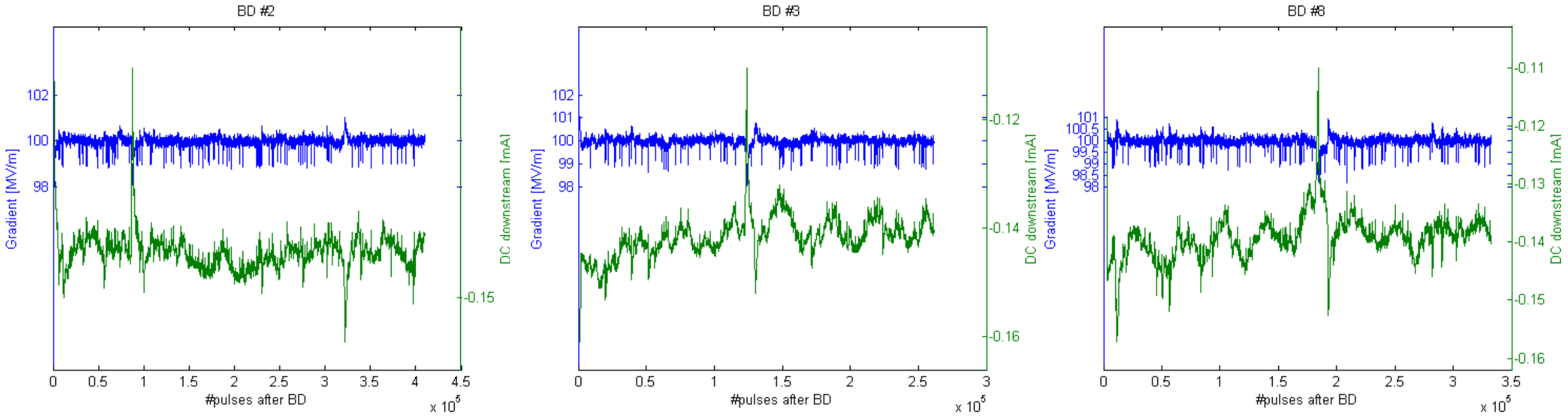


# Some examples of Dark Current before BD

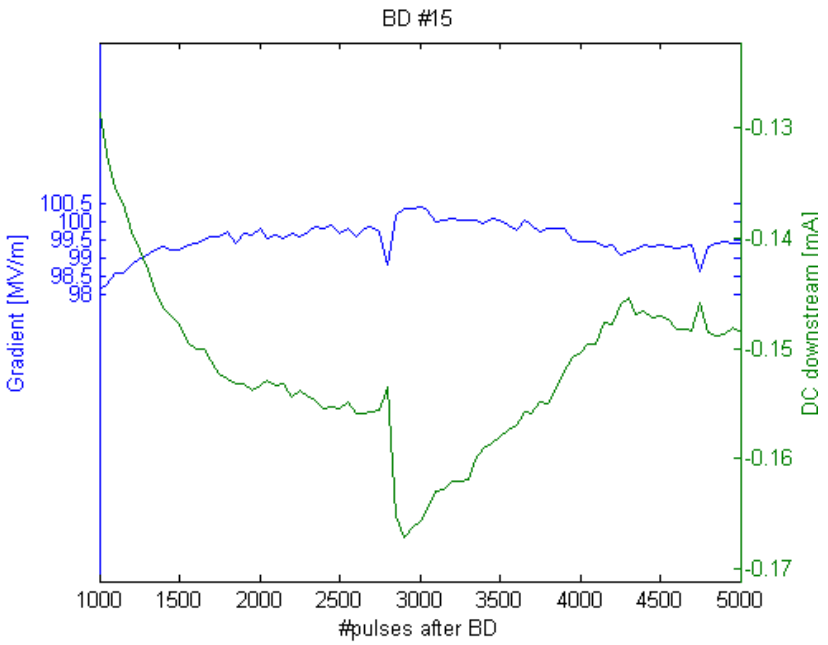
Gradient and DC during the period between $BD_{i-1}$ and $BD_i$

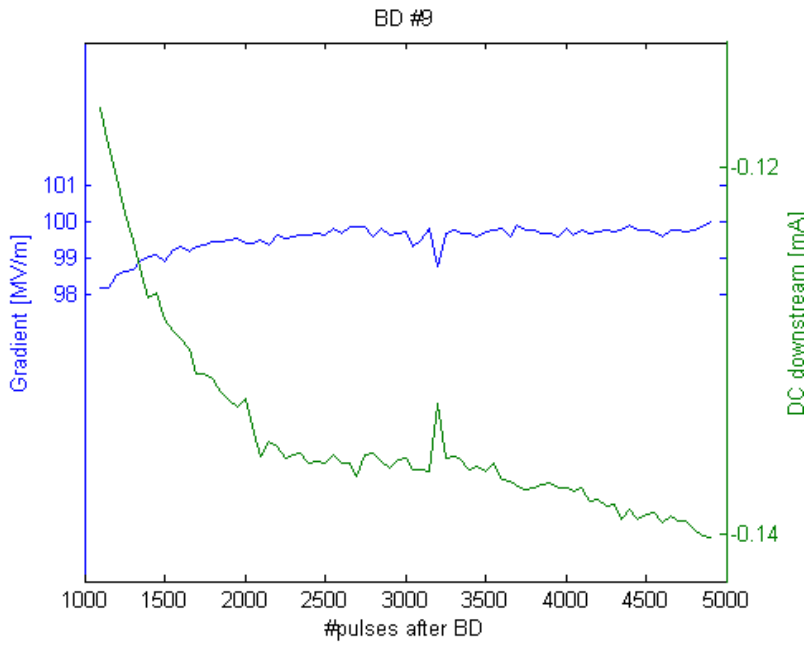
Stable periods: sometimes field emissions seems to decrease

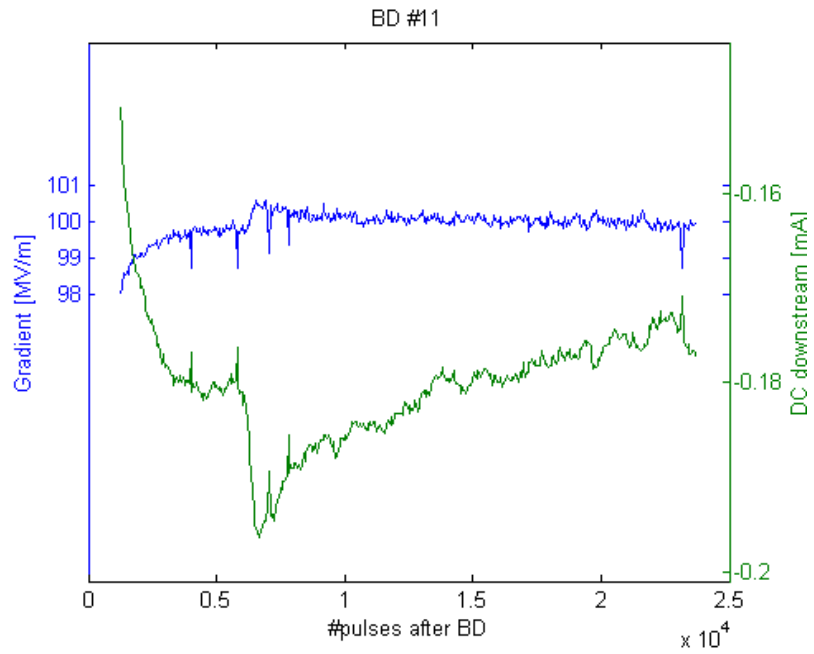


# Some examples of Dark Current before BD

Short periods after ramp-ups (clusters)

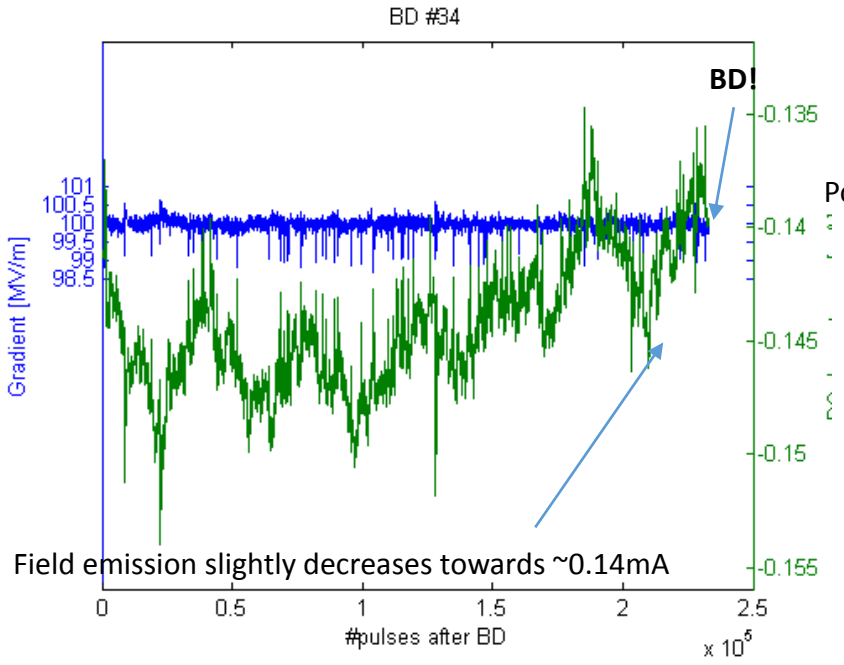


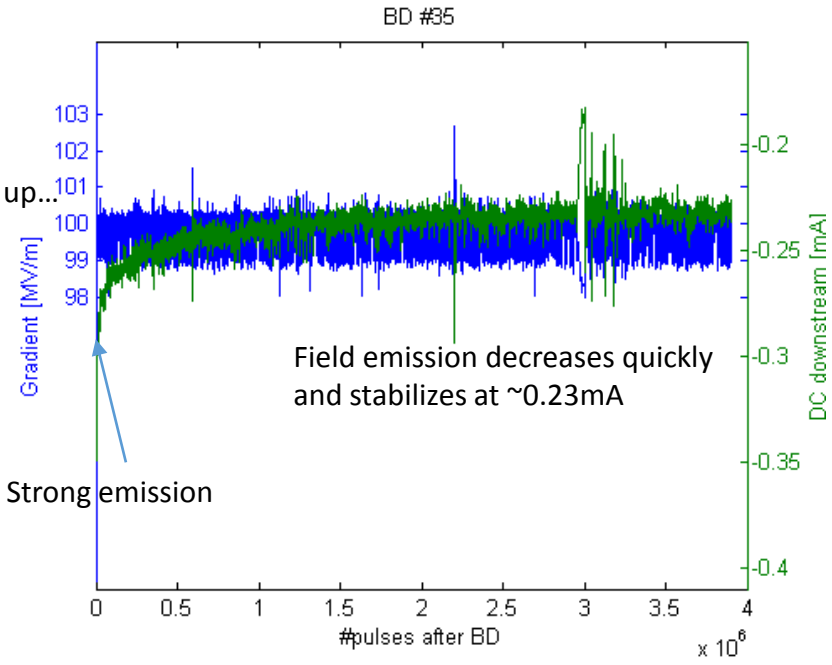



# Some examples of Dark Current before BD

BD Event #34

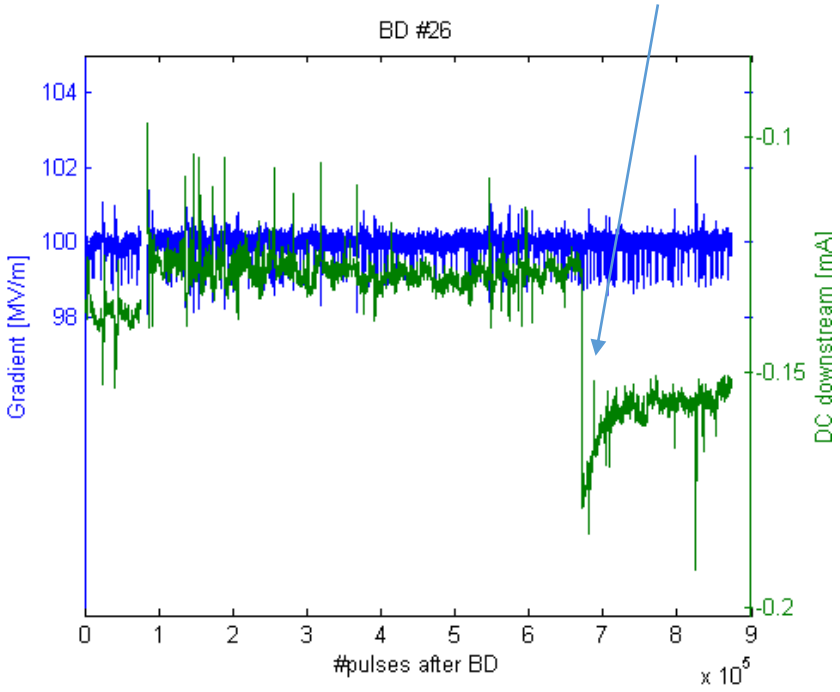



Power ramp up…



# Some examples of Dark Current before BD

This event before BD #26 increased suddenly field emission without triggering a BD




This analysis tries to find long term indications of BD events. However DC seems to decrease with number of pulses and suddenly ignites a BD.

Short term analysis in pre-BD pulses would be interesting to be analysed.

Our capabilities (stored data):

- Dark current pulse average per second.
- Dark current normal pulse (no BD) per minute
- All Dark current pulses in BD events