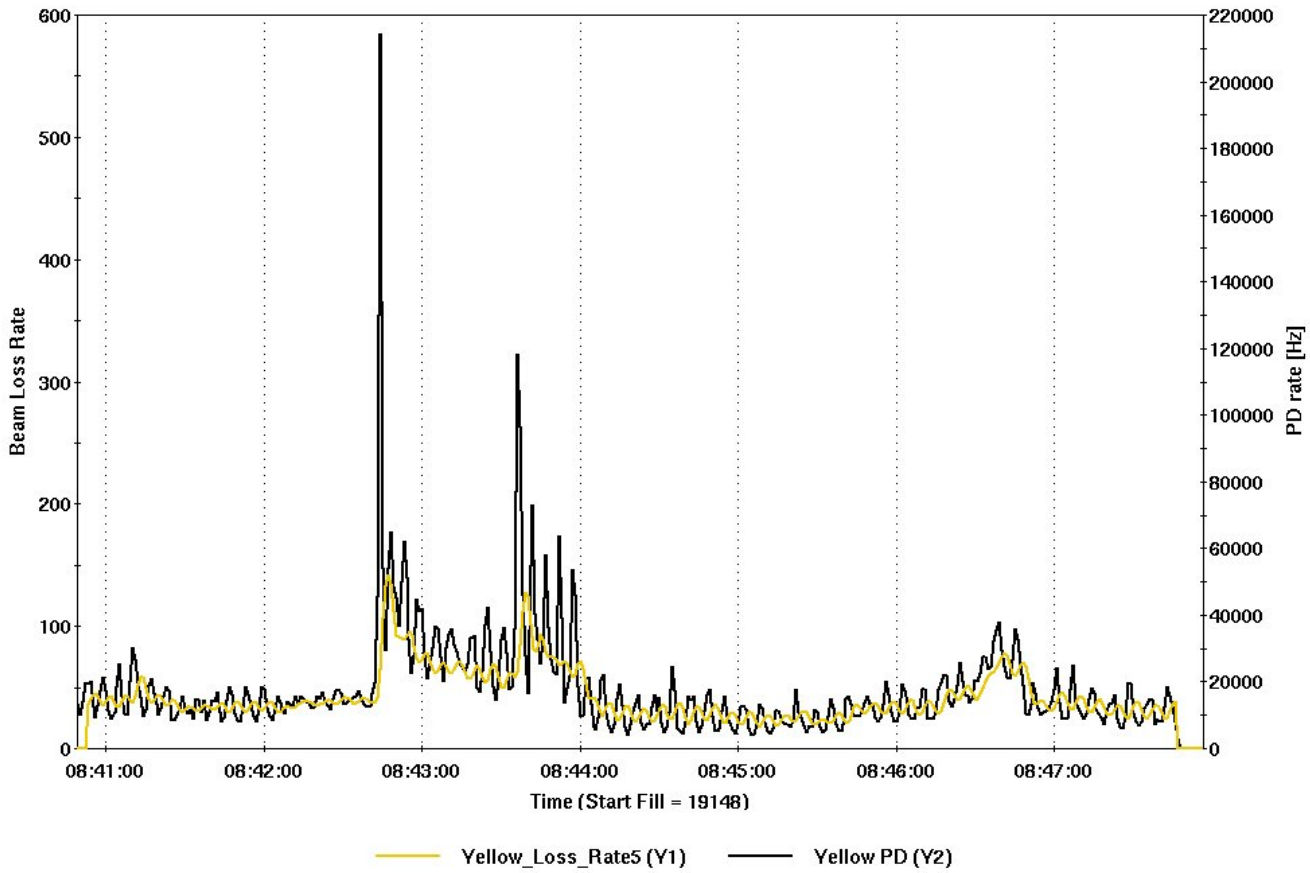
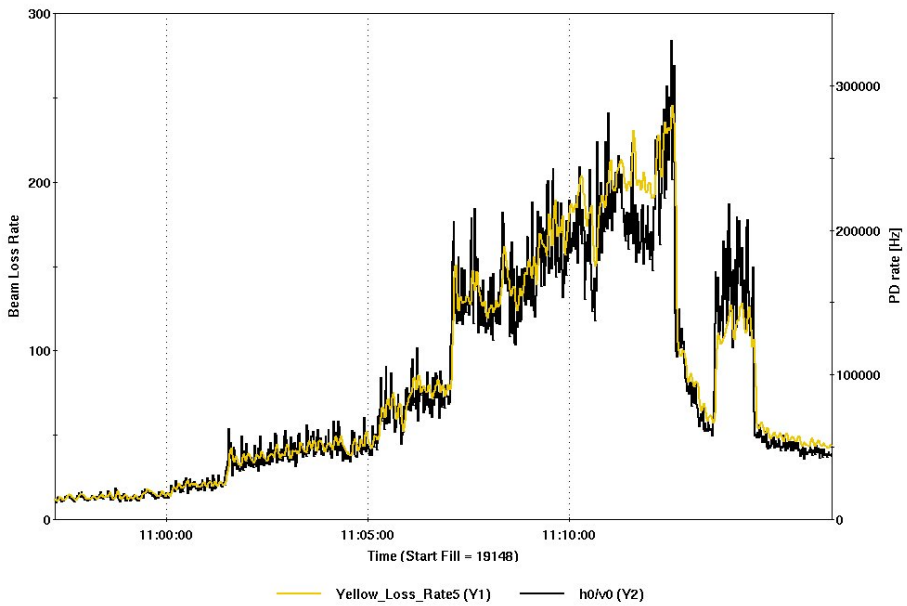
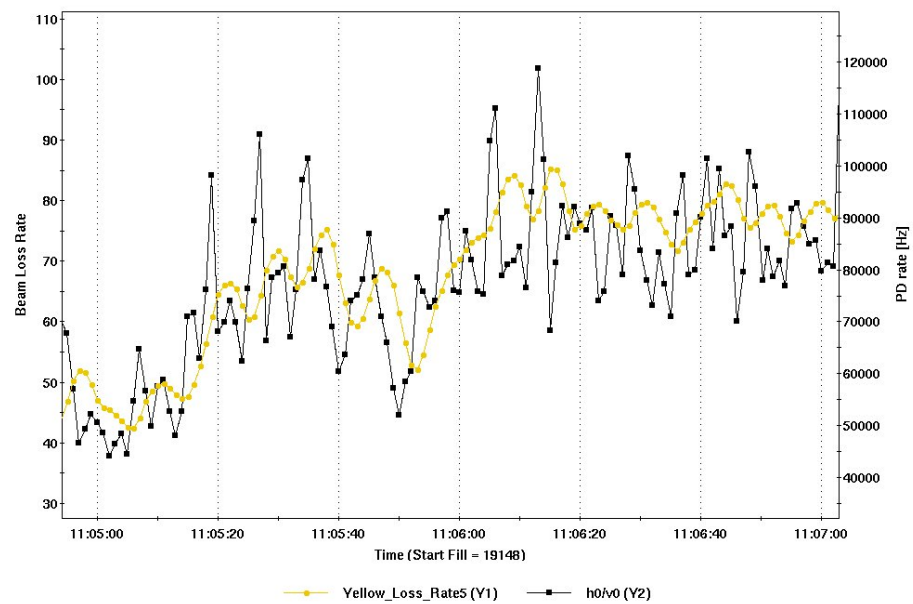
PD rates and beam decay



Very good correlation at injection energy (but less data due to Pass failure)

Proton injection porch

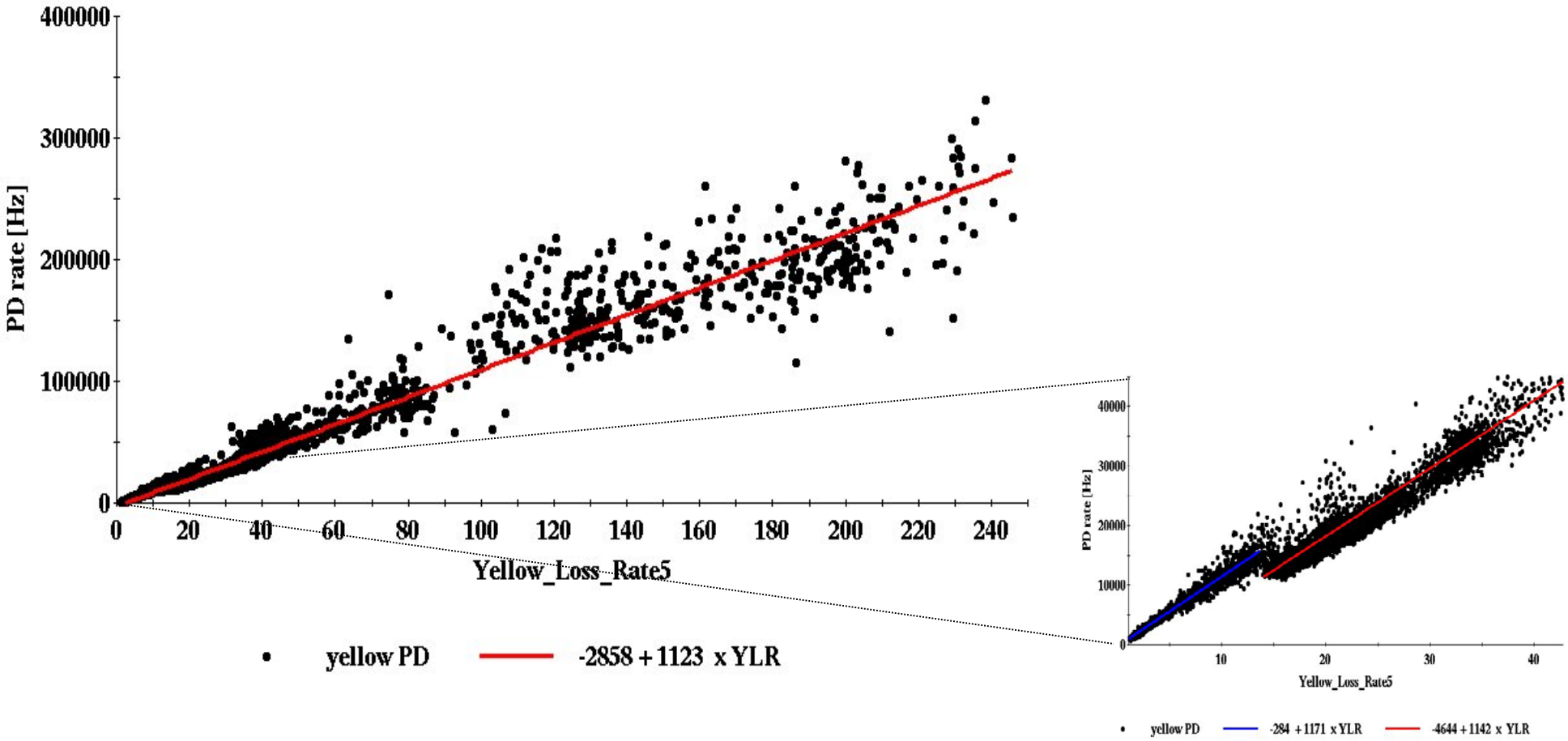




Very good correlation
Note: this is at higher energy > transition

Correlation “shifted” due to the loss-rate-integration (causes some scatter in the correlation)

PD correlation with loss rate (proton injection porch)



- Linear correlation over more than two orders of magnitude, from about 1.5%/hr to 250%/
- scatter could probably be reduced if the same data integration window would be used
- Zooming into the better lifetime area (inlet) shows a “jump” in the data of ~ 4000 Hz