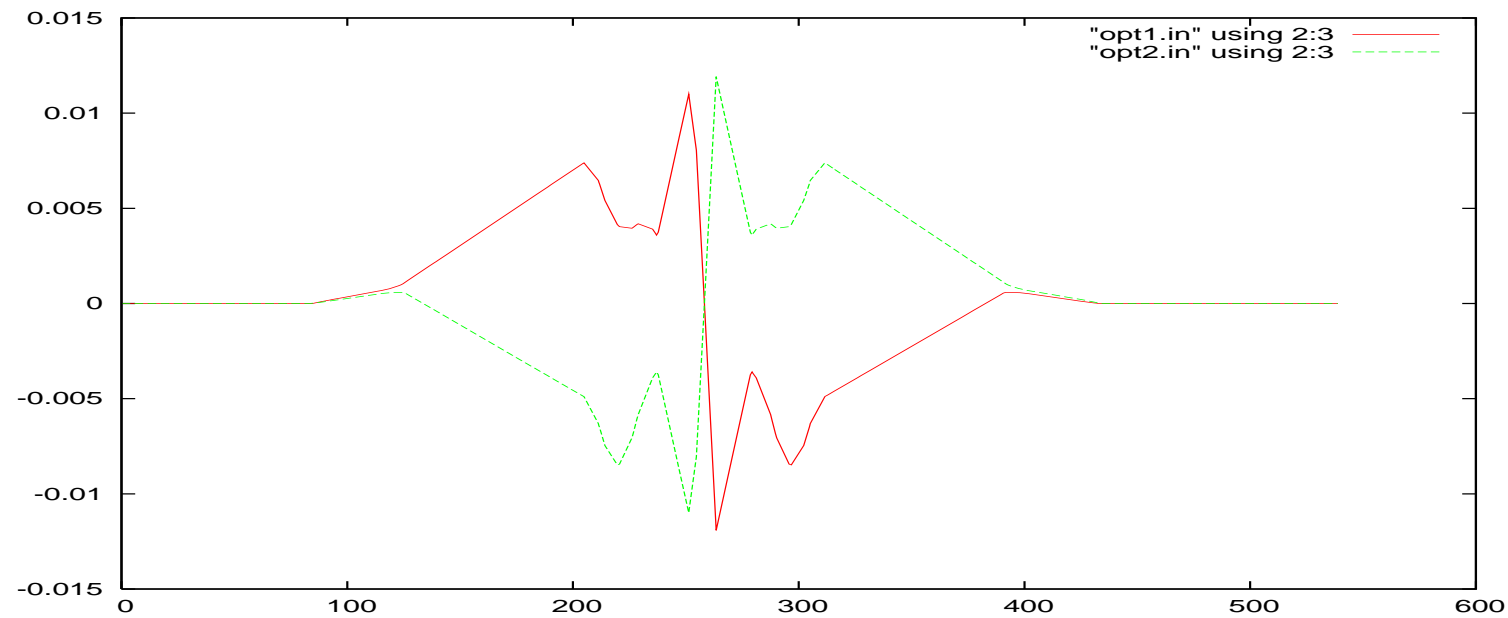


Separation in IP8 at injection

(action 14)

W. Herr

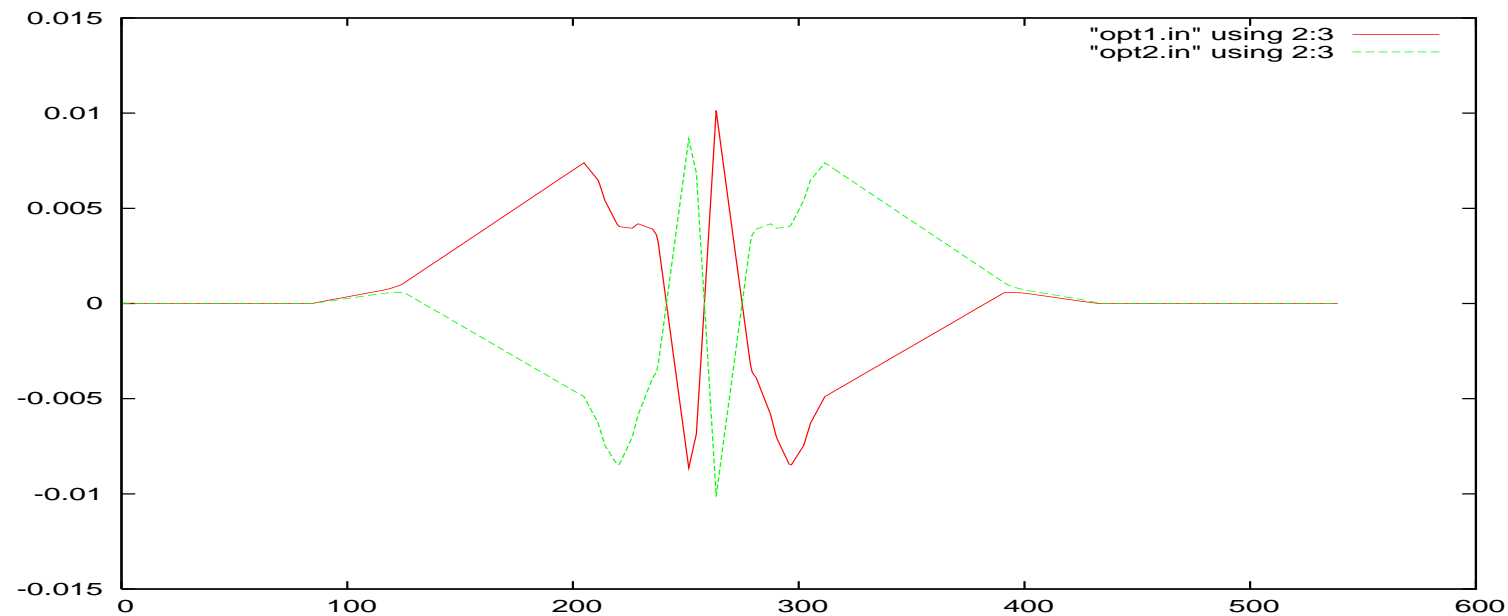
Crossing angle



➡ In IP8: superimposed crossing angle and spectrometer

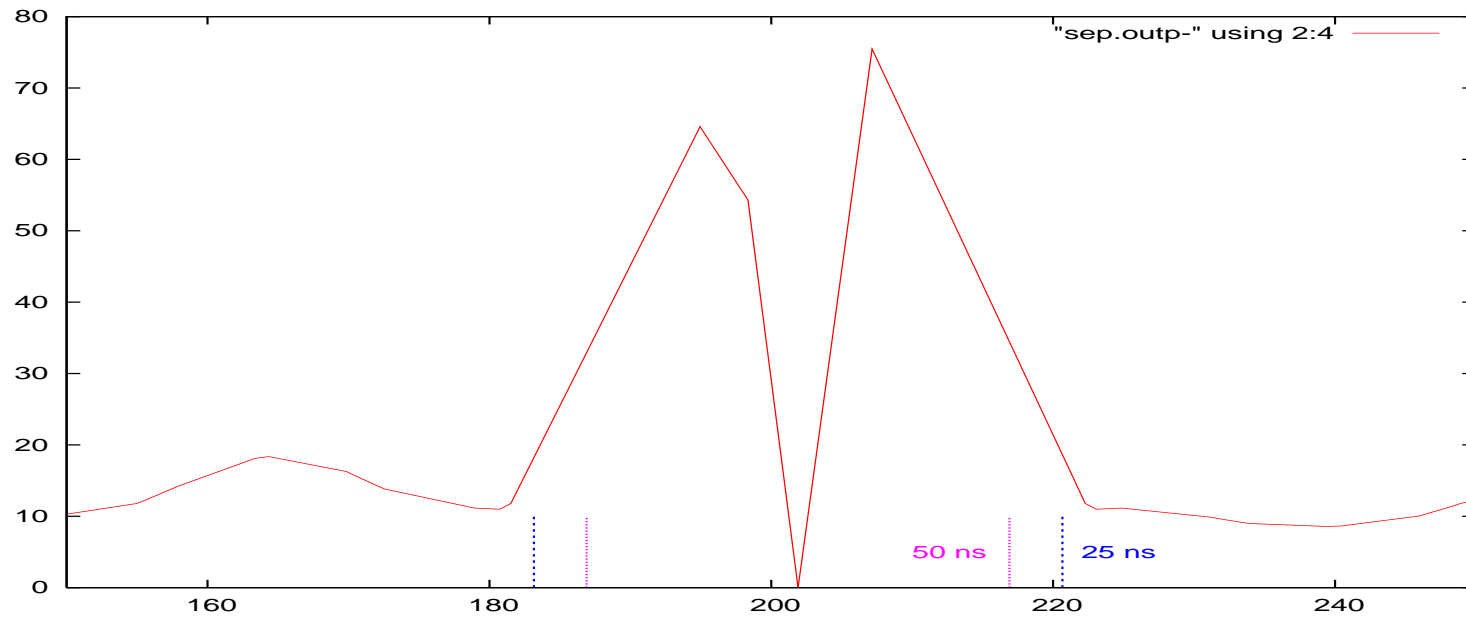
➡ crossing angles, good polarity

Crossing angle



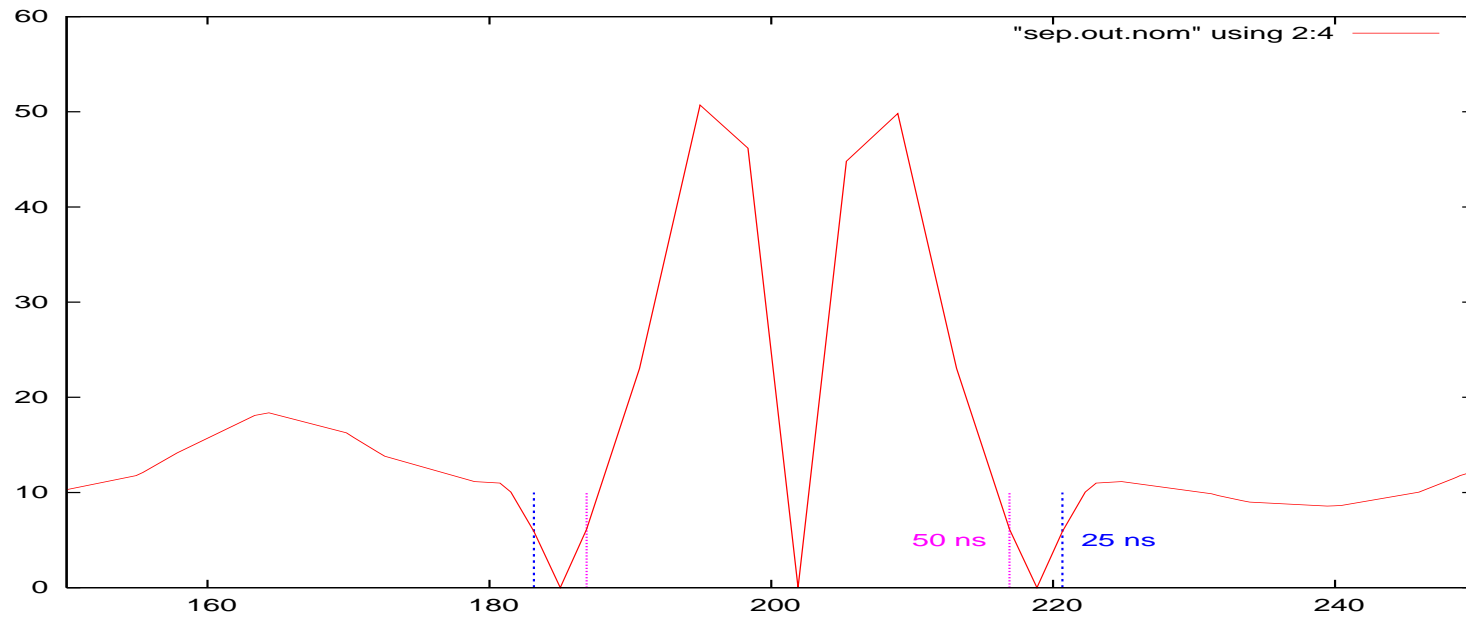
- ➡ In IP8: superimposed crossing angle and spectrometer
- ➡ crossing angles, bad polarity

separation (in σ)



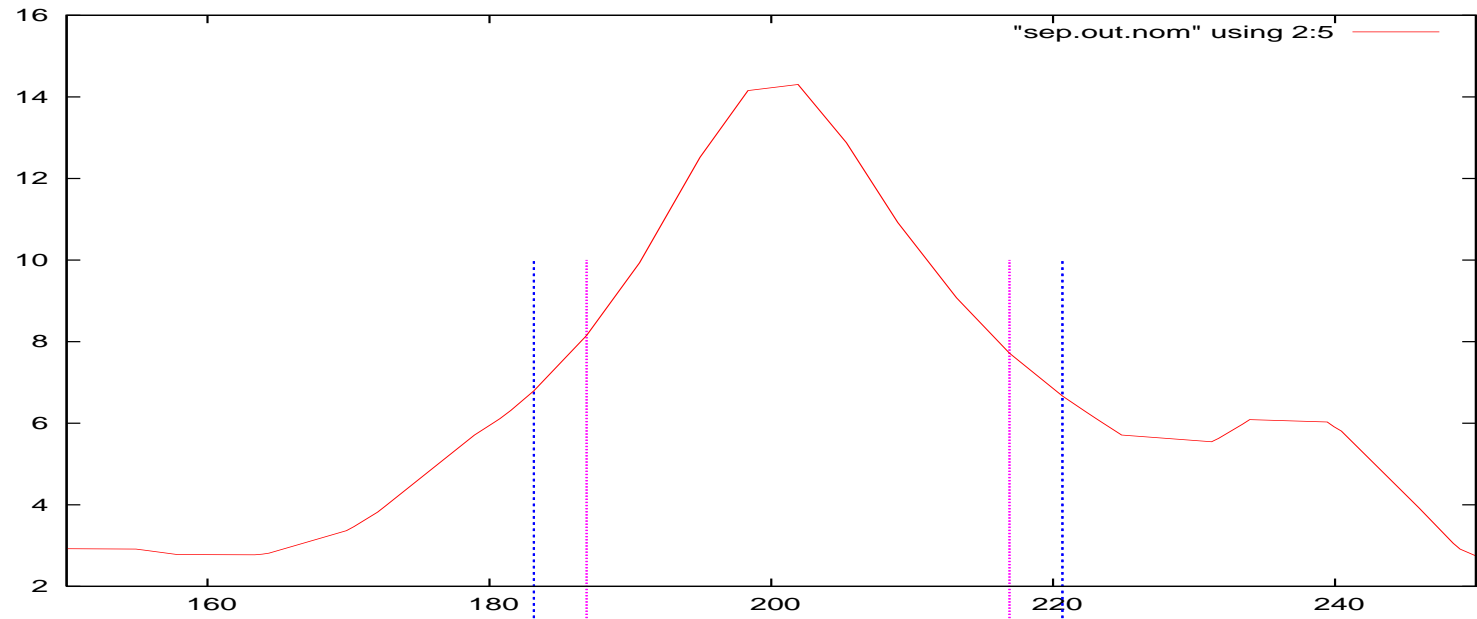
- ➔ crossing angles, good polarity
- ➔ separation from crossing angle, nominal, $3.75 \mu\text{m}$
- ➔ critical encounters for 25ns and 50 ns indicated

separation (in σ)



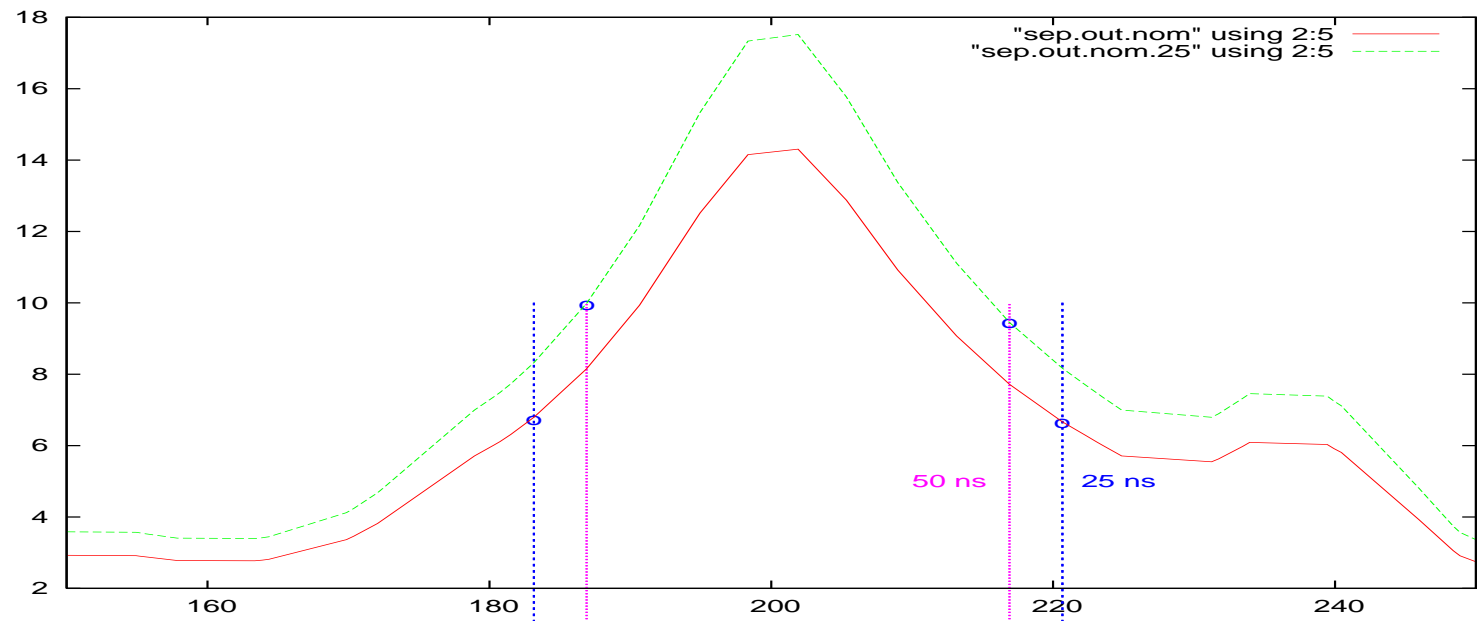
- ➔ crossing angles, bad polarity
- ➔ separation from crossing angle, nominal, $3.75 \mu\text{m}$
- ➔ critical encounters for 25ns and 50 ns indicated

separation (in σ)



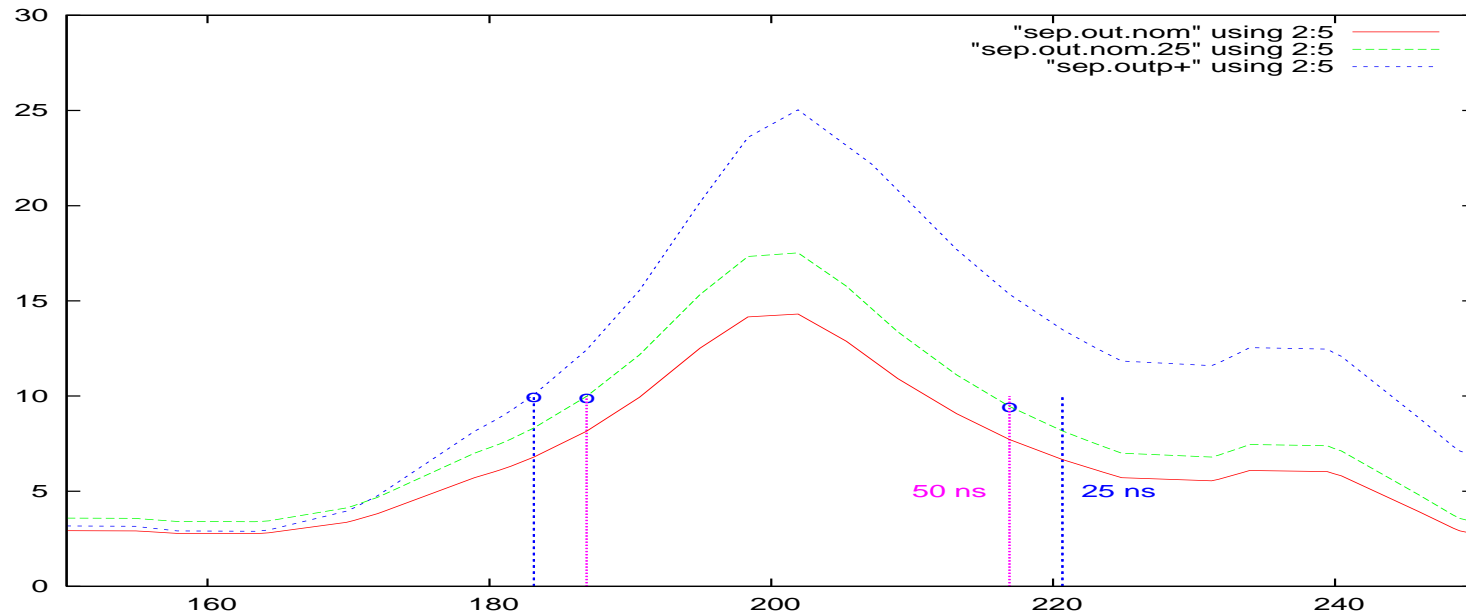
→ separation from parallel bump, nominal, $3.75 \mu\text{m}$

separation (in σ)



→ separation, nominal, 3.75 μm and 2.50 μm

separation (in σ)



→ separation, nominal, $3.75 \mu\text{m}$ and $2.50 \mu\text{m}$

→ separation, new ($\pm 3.5 \text{ mm}$, vertical angle), $3.75 \mu\text{m}$

discussion

for separation at critical encounter:

- separation 2012 (50 ns, 2.50 μm) recovered for (25 ns, 3.75 μm)
- most likely can work, provided:
 - emittance for 25 ns not larger than 3.75 μm
 - no additional surprises for 25 ns spacing (i.e. doubled number of long range)