SAMPA response
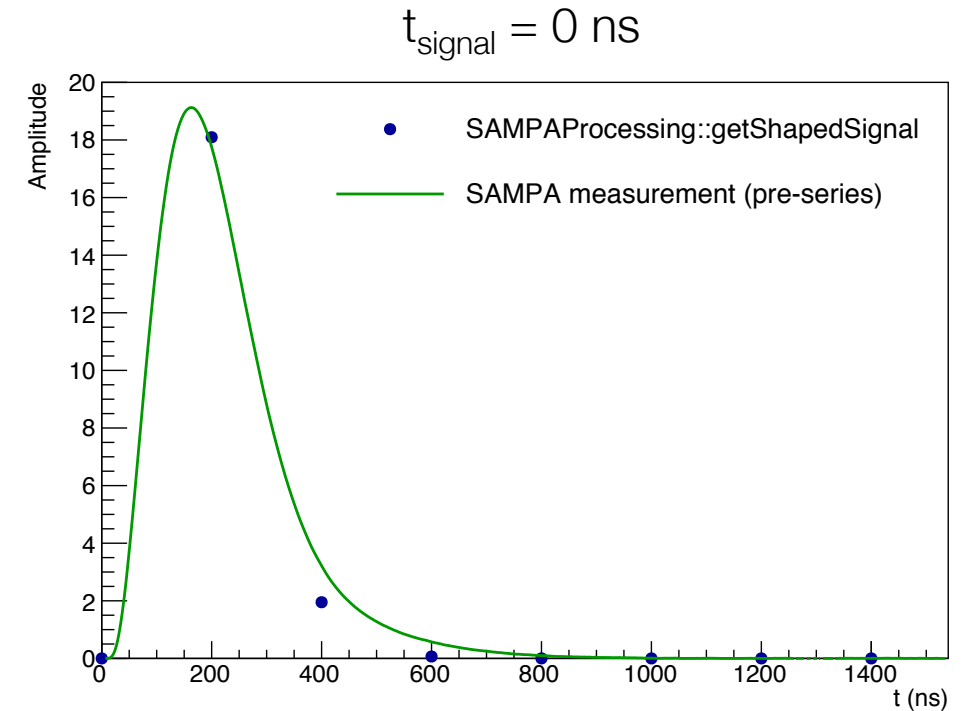
- The measured signal (green line) is obtained with a pulse injected at t=0 ns
  - Note that these are data taken with a pre-series SAMPA
  - The signal shape in O^2 will be verified & tuned as soon as I have access to the data of the final SAMPA tests
  - The peak is shifted by ~160 ns with respect to the pulse injection

- This behavior is reproduced by the O^2 implementation
  - The first time bin is therefore always empty

$t_{signal} = 0$ ns

SAMPA response

- The offset with respect to the beginning of the first time bin increases when the initial pulse is delayed
  - Here: a pulse injected at t=100 ns
  - The peak is at 100 ns (shift) + 160 ns (peaking time)
  - This effectively increments the hit time by 1.3 time bins

t_{signal} = 100 ns