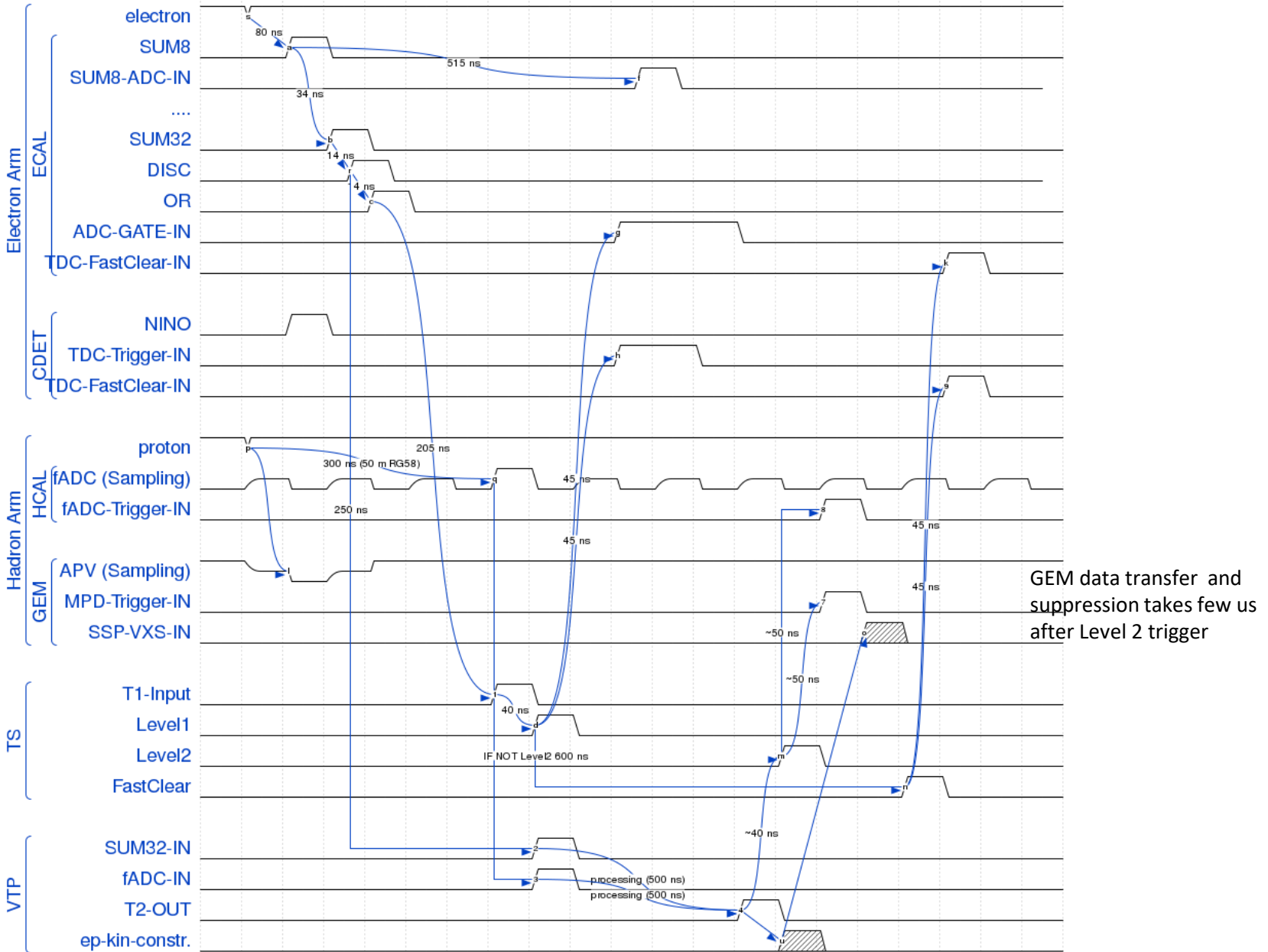


Trigger Formation - Timing Diagram



GEM Data Reduction steps

Data reduction is performed on a time scale of micro-s

t=0	MPD receives level 2 trigger
t \approx 100 ns	APV sends data to the MPD, after receiving trigger from MPD
t \approx 3 μ s	MPD completes zero suppression on the data it received from APV
t \approx 1 μ s	Meanwhile SSP receives «e-p kinematical information»
t \approx 6 μ s	MPD transfer the data to the SSP and SSP apply the «e-p kinematical suppression» while receiving data
t \approx 10 μ s	SSP estimates starting time of the signals, after step 5, only on the cards that have survived suppression; if start time is out of fiducial limit, channel is suppressed