HMS Hodoscopes

HMS Hut
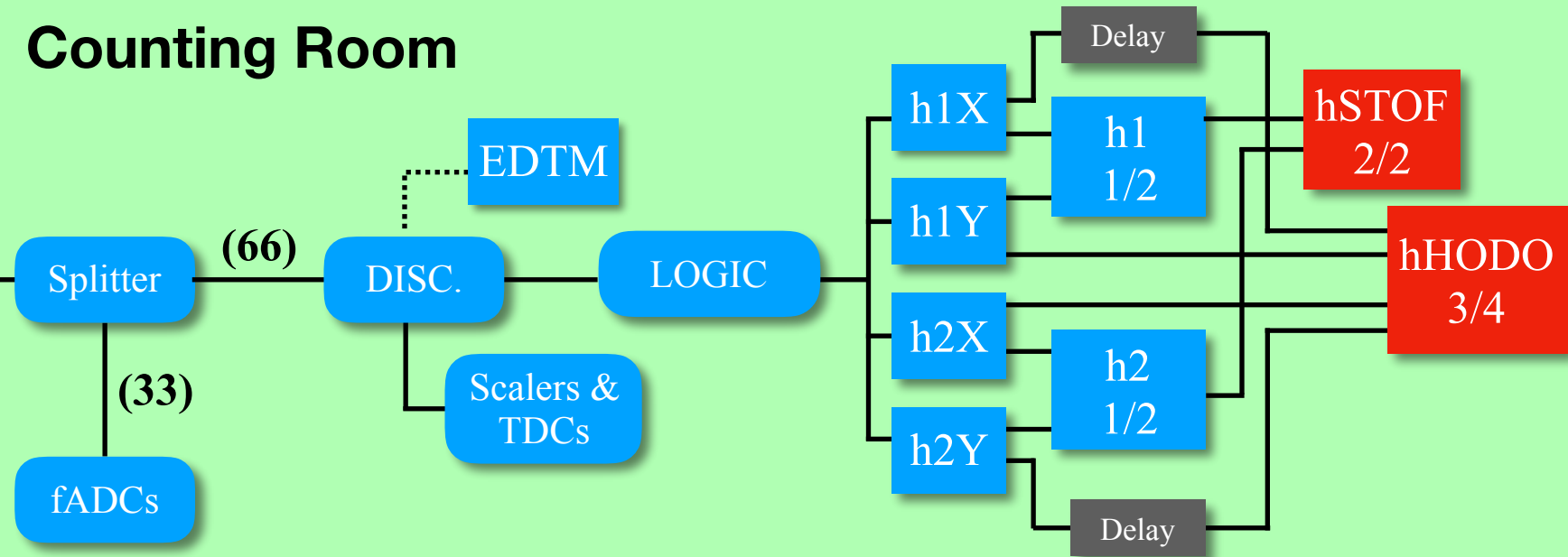
h1x (32 sig / 16 bars)

h1y (20 sig /10 bars)

h2x (32 sig /16 bars)

h2y (20 sig /10 bars)

Counting Room

Splitter

(66)

(33)

fADCs

EDTM

DISC.

Scalers & TDCs

LOGIC

h1X

h1Y

h2X

h2Y

Delay

h1 1/2

h2 1/2

Delay

hSTOF 2/2

hHODO 3/4

HMS Hodoscopes

HMS Hut

h1x (32 sig / 16 bars)

h1y (20 sig /10 bars)

h2x (32 sig /16 bars)

h2y (20 sig /10 bars)

Counting Room

Splitter

(66)
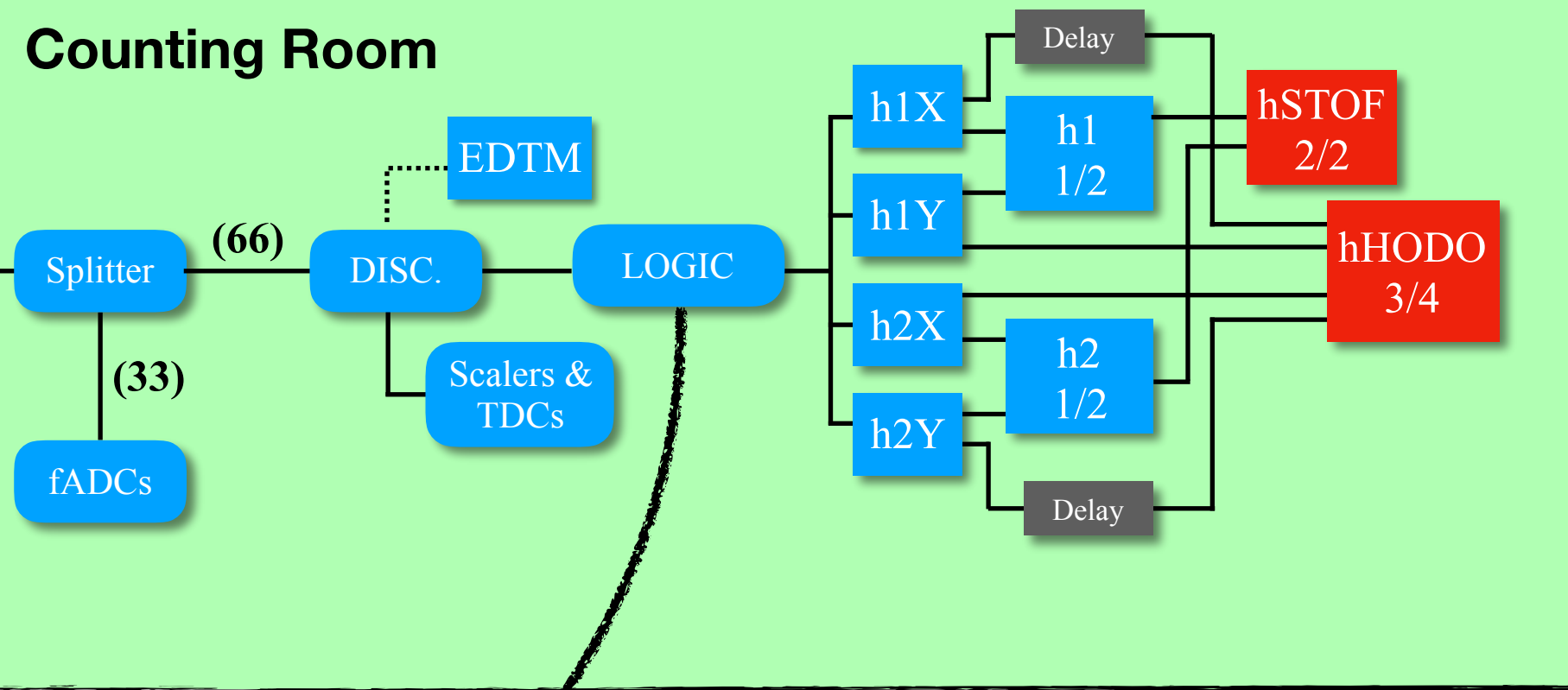
(33)

fADCs

EDTM

DISC.

Scalers & TDCs

LOGIC

h1X

h1Y

h2X

h2Y

Delay

h1 1/2

h2 1/2

Delay

hSTOF 2/2

hHODO 3/4

h1X = h1X+ (16-fold OR) AND   h1X- (16-fold OR)
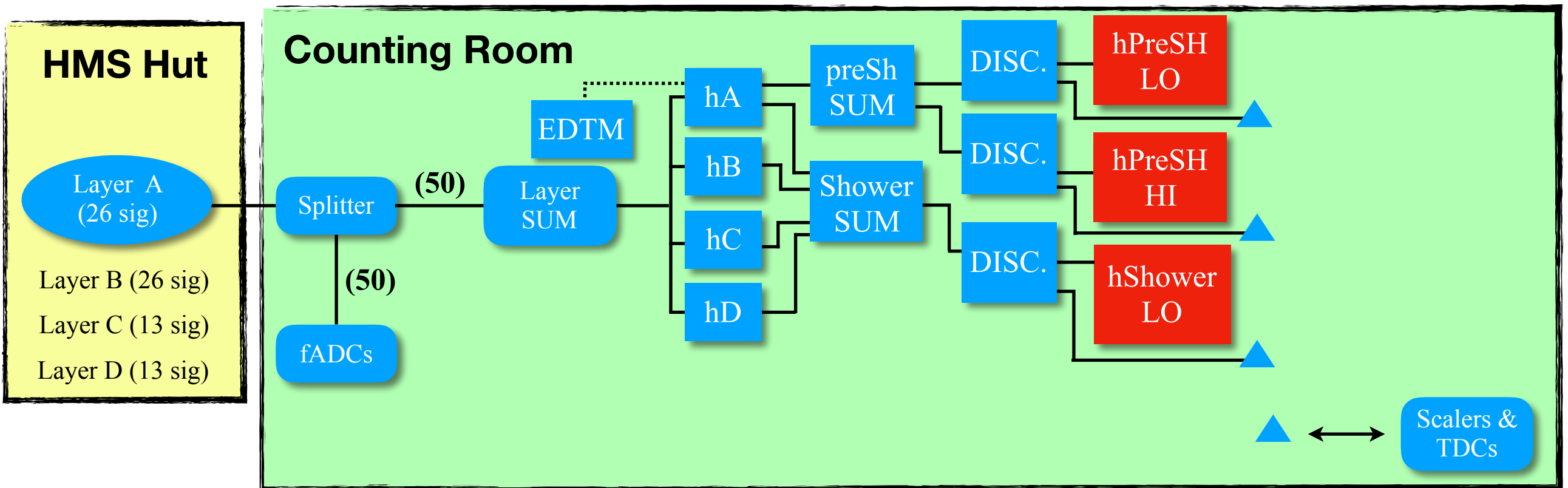
h1Y = h1Y+ (10-fold OR) AND   h1Y- (10-fold OR)
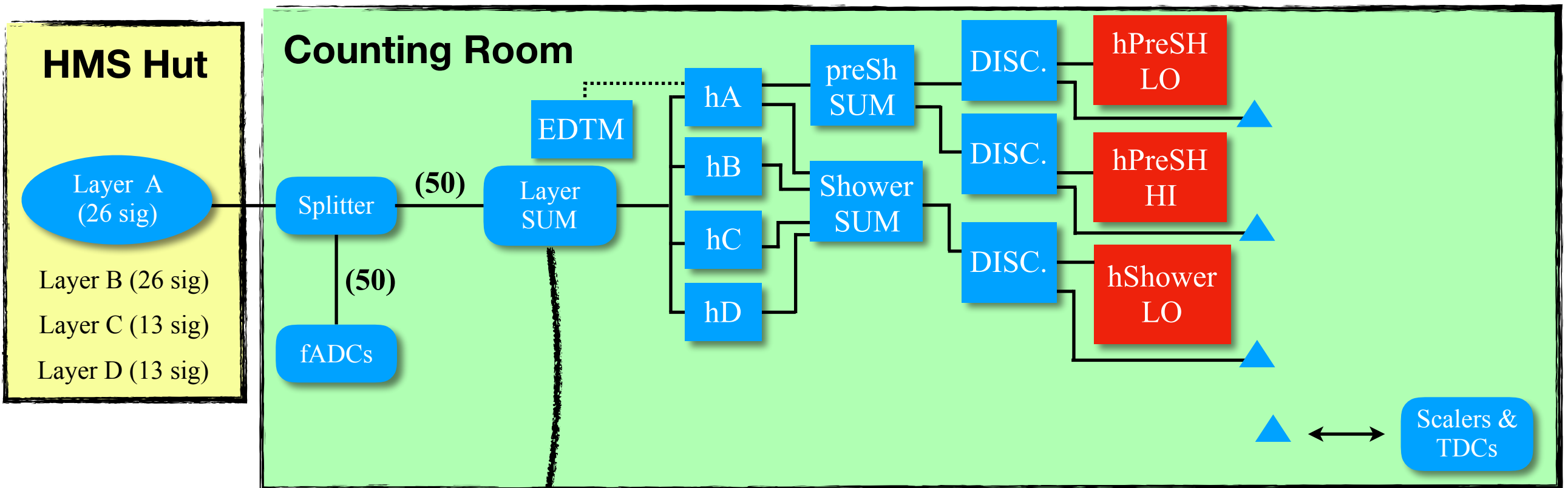
h2X = h2X+ (16-fold OR) AND   h2X- (16-fold OR)

h2Y = h2Y+ (10-fold OR) AND   h2Y- (10-fold OR)
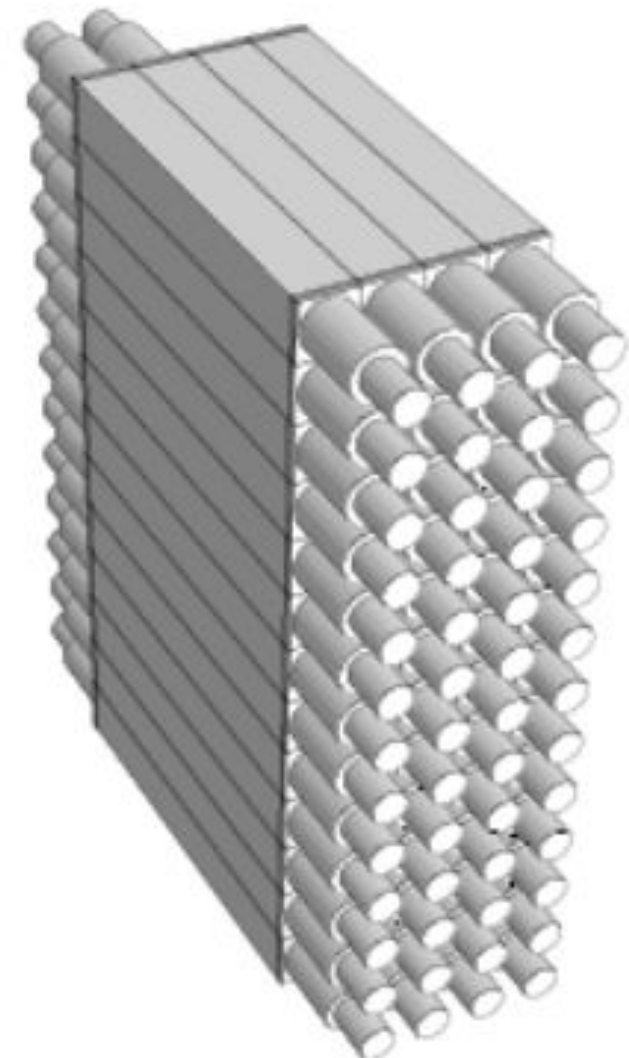
HMS Hodoscopes

HMS Calorimeter

HMS Hut

Layer A (26 sig)

Layer B (26 sig)

Layer C (13 sig)

Layer D (13 sig)

Counting Room

Splitter

fADCs

EDTM

Layer SUM

(50)

(50)

hA

hB

hC

hD

preSh SUM

Shower SUM

DISC.

DISC.

DISC.

hPreSH LO

hPreSH HI

hShower LO

Scalers & TDCs

HMS Calorimeter

HMS Hut

Layer A (26 sig)

Layer B (26 sig)

Layer C (13 sig)

Layer D (13 sig)

Counting Room

EDTM

Splitter

(50)

(50)

fADCs

Layer SUM

hA

hB

hC

hD

preSh SUM

Shower SUM

DISC.

DISC.

DISC.

hPreSH LO

hPreSH HI

hShower LO

Scalers & TDCs

hA = hA+ (13 sig) + hA- (13 sig)

hB = hB+ (13 sig) + hB- (13 sig)

hC = hC- (13 sig)

hD = hD- (13 sig)

Particle flux
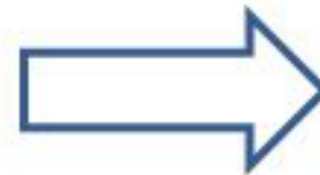
HMS Gas Cherenkov
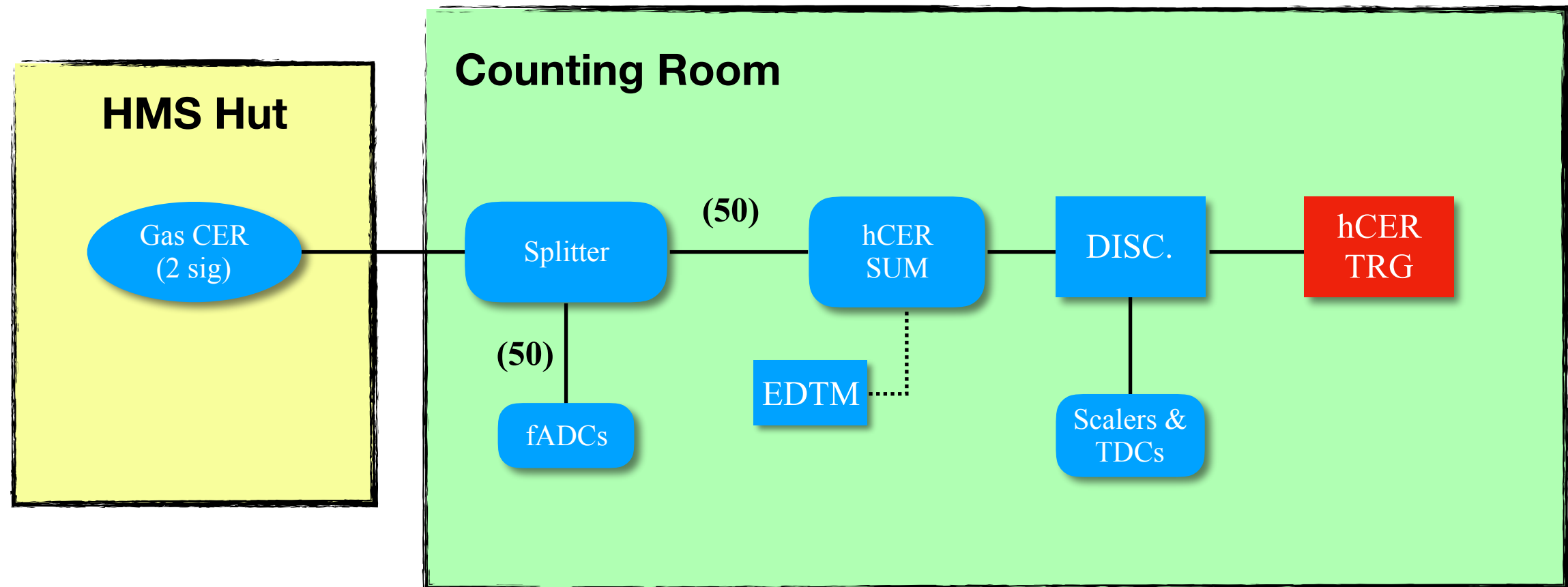
HMS Hut
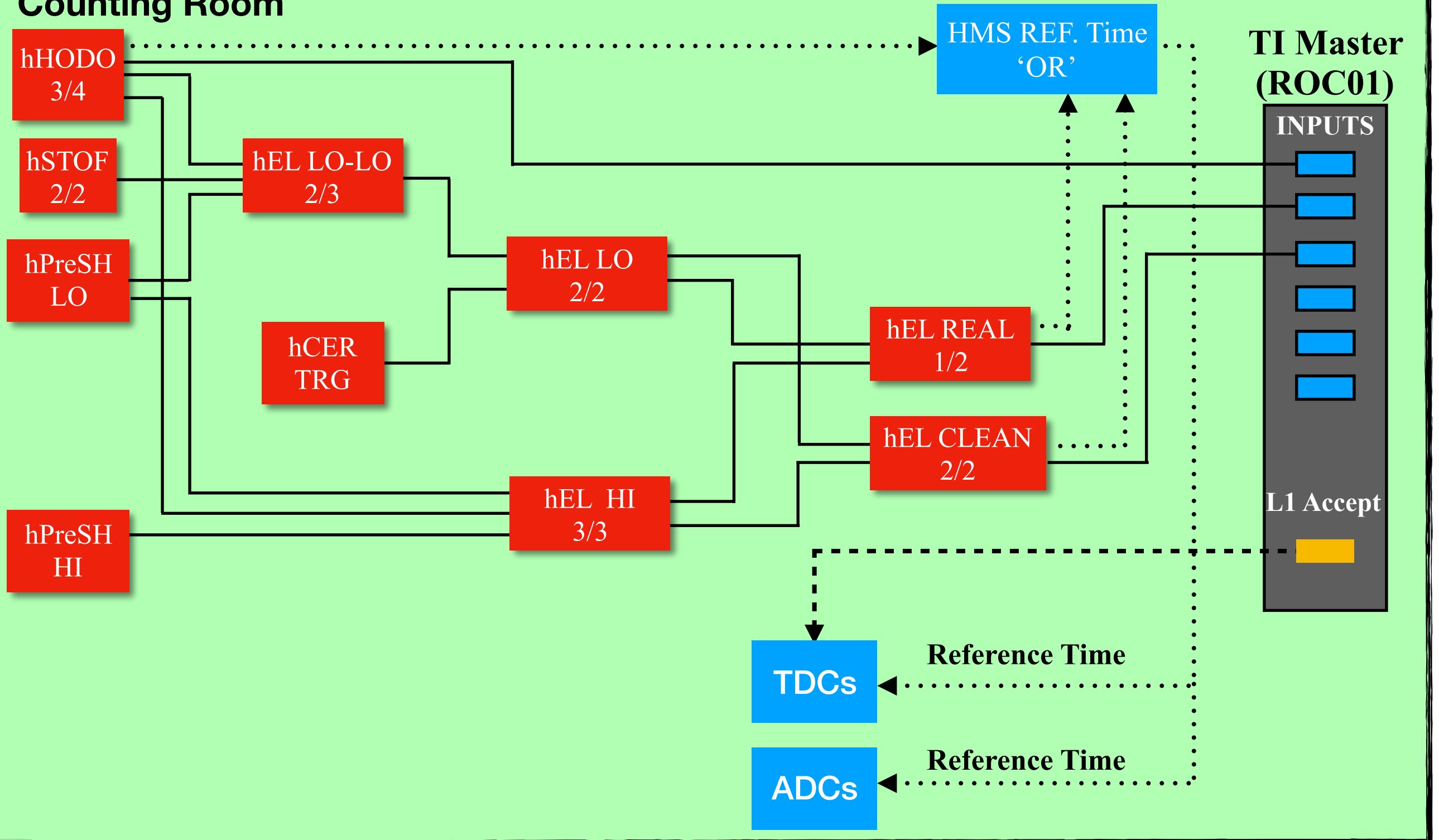
Gas CER
(2 sig)

Counting Room

Splitter

(50)

hCER
SUM

DISC.

hCER
TRG

(50)

fADCs

EDTM

Scalers &
TDCs

HMS Single Arm

Counting Room

HMS REF. Time 'OR'

TI Master (ROC01)

hHODO 3/4

hSTOF 2/2

hPreSH LO

hPreSH HI

hEL LO-LO 2/3

hCER TRG

hEL LO 2/2

hEL HI 3/3

hEL REAL 1/2

hEL CLEAN 2/2

INPUTS

L1 Accept

TDCs

ADCs

Reference Time

Reference Time

SHMS Hodoscopes
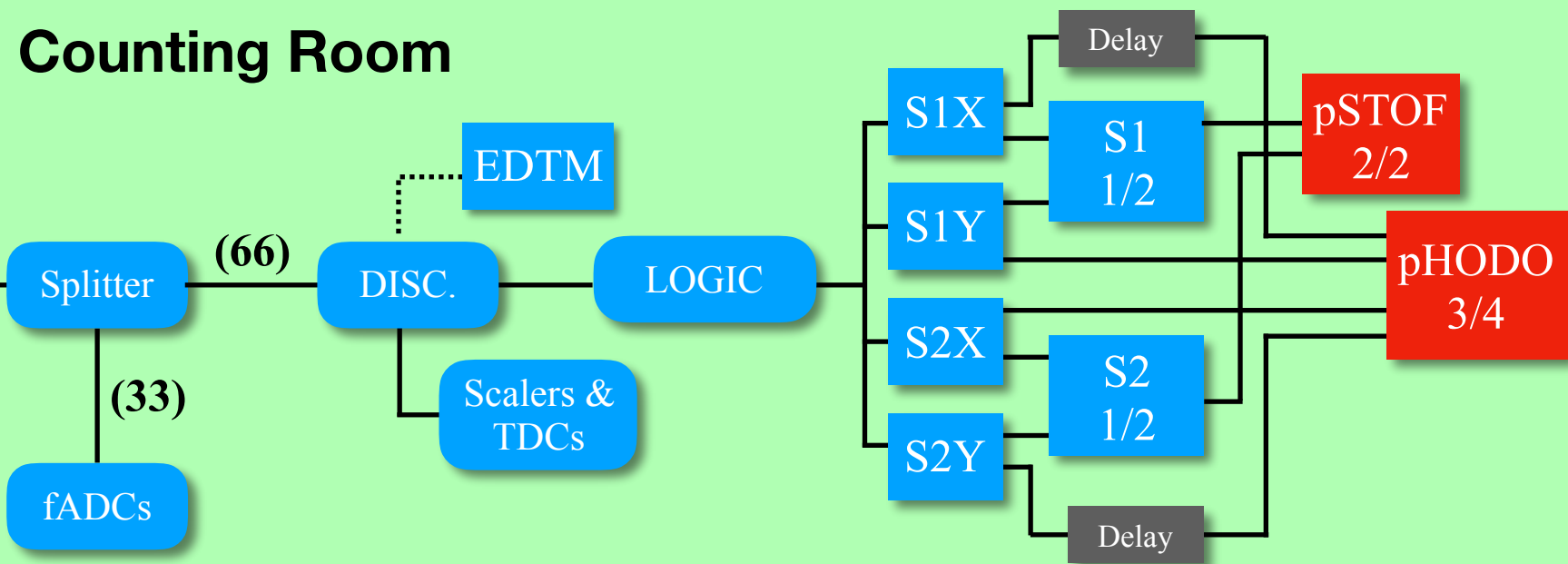
SHMS PreShower/Shower Calorimeter
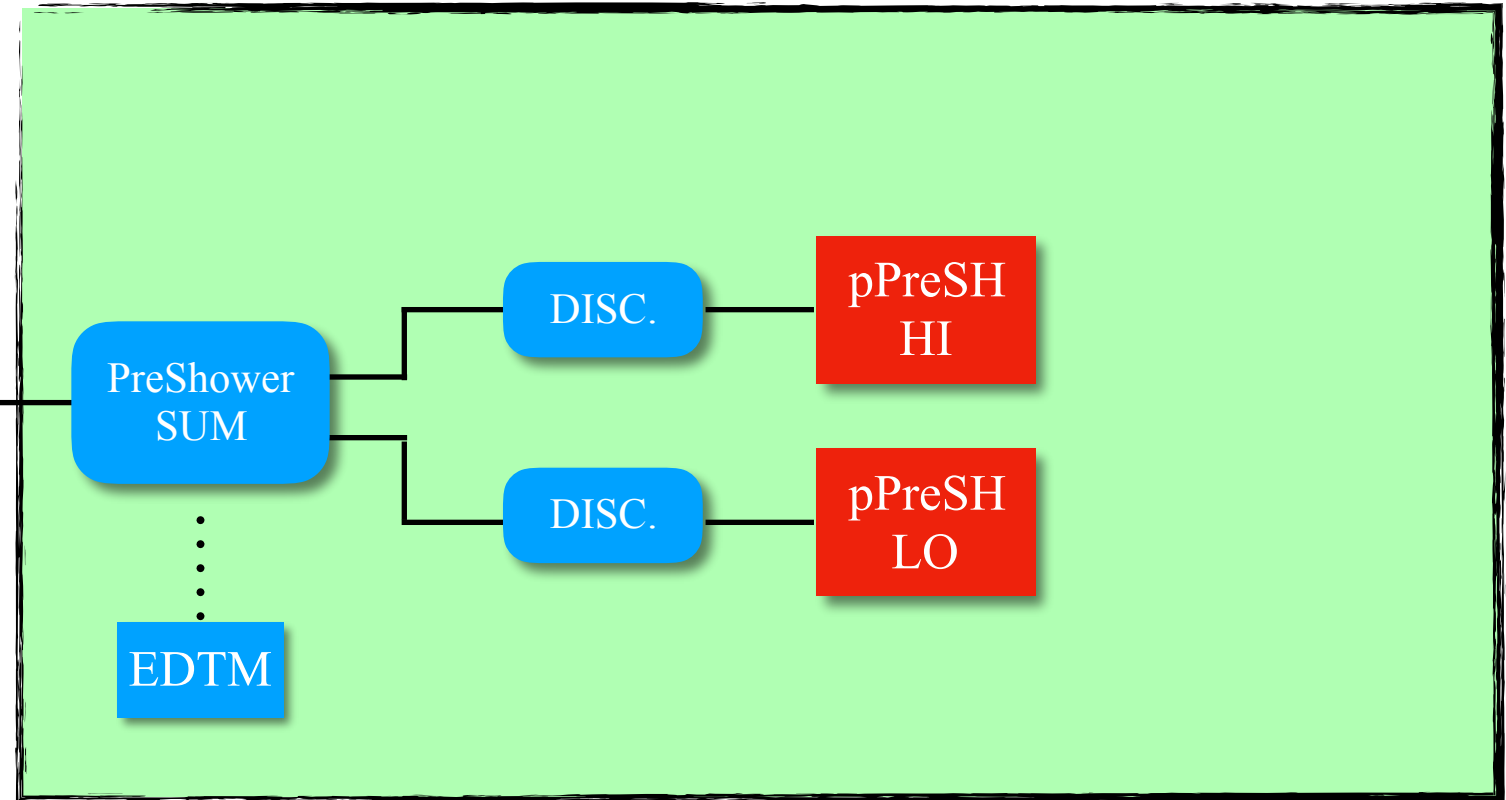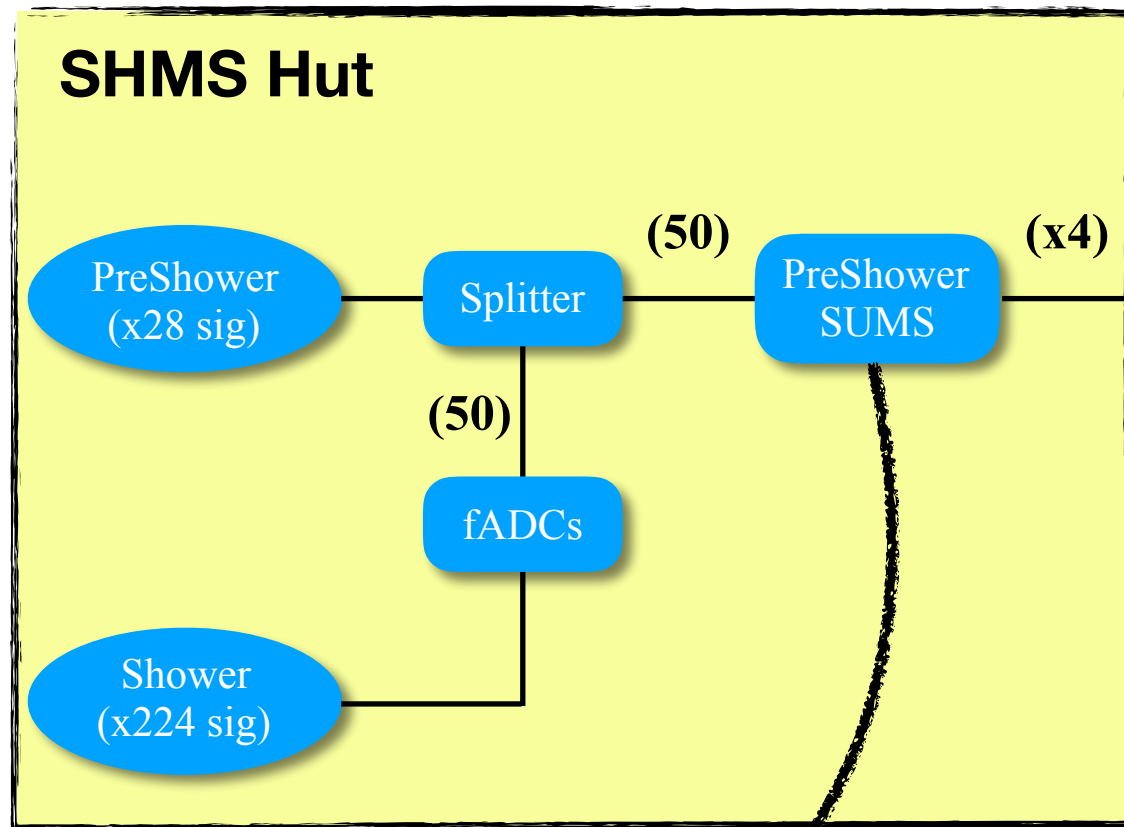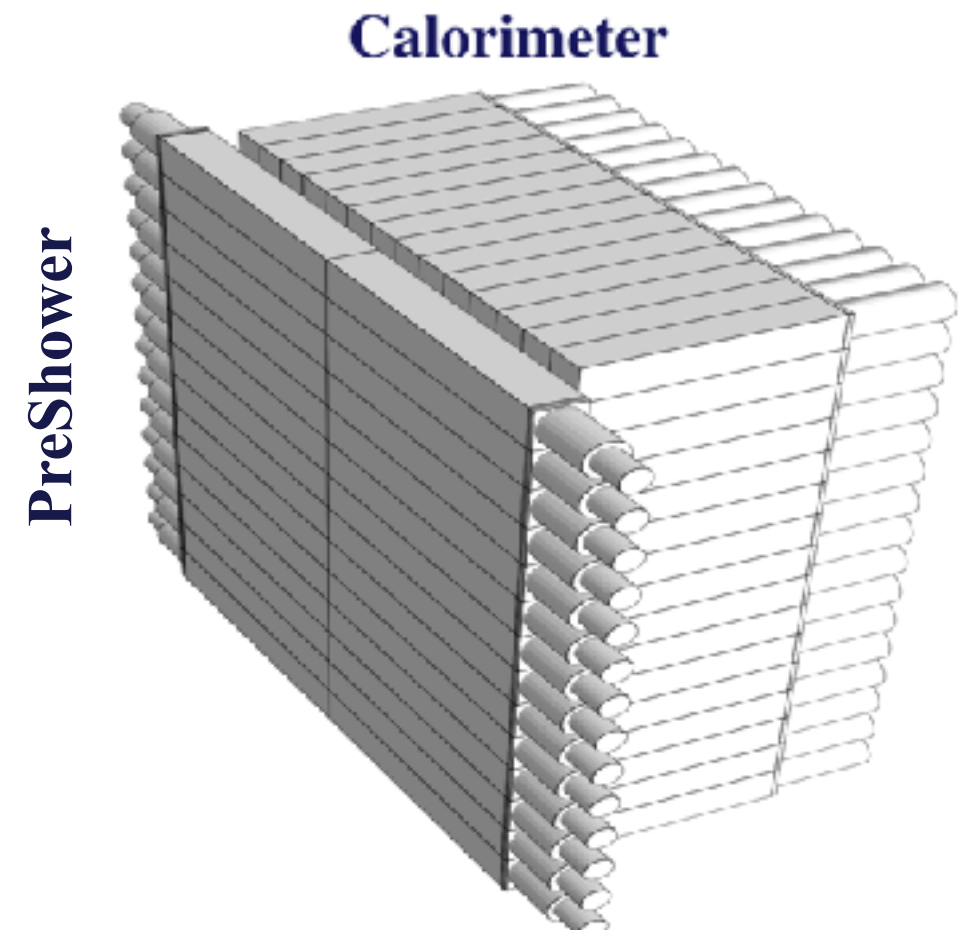
SHMS Heavy/Noble Gas Cherenkov

SHMS Single Arm

Counting Room

pHODO 3/4

SHMS REF. Time 'OR'

TI Master (ROC02)

INPUTS

pSTOF 2/2

pEL LO-LO 2/3

pPreSH LO

pEL LO 2/2

pNGC TRG

pEL REAL 1/2

pEL CLEAN 2/2

pEL HI 2/2

pPreSH HI

L1 Accept

TDCs

Reference Time

ADCs

Reference Time

HMS/SHMS Coincidence