extensively from pre-TDR - new iteration in two weeks - is it worth the wait?

WHERE IS THE GOOGLE DOC?

Overview from some Leszek's presentation? is Leszek relevant?

\section{Motivation}

still tail catcher of nECal (what is that really, only of that?)

start with HERA (maybe) - then continue from that ("to not make the same mistake")

Vector meson - the matrix image + the 012K plots

only for e + Au and phi, or also e + p, and J/psi?

\section{Construction}

realistic dimensions and location

tiling? is it really important?

does clustering make sense to mention? - probably somewhere else (simulations)

changes?

sampling, N layers, ... ok, but what about material e.g.?

sampling fraction - possible to be compensating (Elke says NO)? what did Subhadip prove, then? - how achieved? how calculated?

but what about true construction? does Leszek now? does anybody?

two images from BP? or something else? cite myself?

anything about neutrons? meaningful?

is tilt usable? if for VU, also for DP?

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VECTOR MESON

Without the nHCal, about half of the ϕ decays would have incomplete, or no hadronic

calorimeter information at all. [Caroline]

**Requirements**

Backward HCal shall provide functionality of a tail catcher for the high resolution e/m calorimeter in electron identification, as well as for jet kinematics measurement at small Bjorken x

Shall accommodate the possibility of hadron energy measurements in the range up to few dozens of GeV and pseudorapidity down to -3.5

Must provide capability to cover pseudo rapidity range down to at least -3.5.

Shall accommodate the ability to complement e/m calorimeter by tail catching capability for electron ID purposes, especially below 3-4 GeV/c.

Shall provide capability to have energy resolution s(E)/E ~ 100%/sqrt(E) + a 10% constant term.

Must provide space to have tower depth of 3-4 interaction lengths (together with the e/m PWO crystal calorimeter) in order to suppress longitudinal leakage for relatively small hadron energies in the e-endcap.

Should be built of non-magnetic materials

Shall not interfere with the detector solenoid magnetic field