

ERRATA

# Proposal for the PHENIX Nosecone Calorimeter An Overview

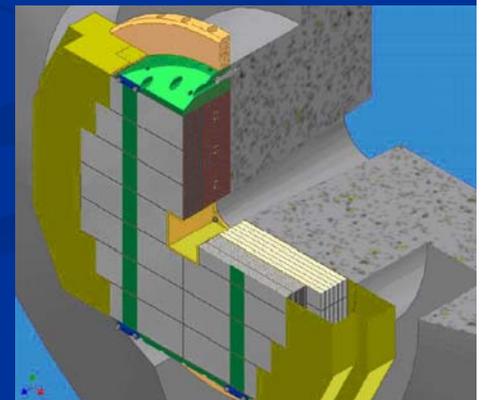
Richard Seto

BNL

March 14, 2006

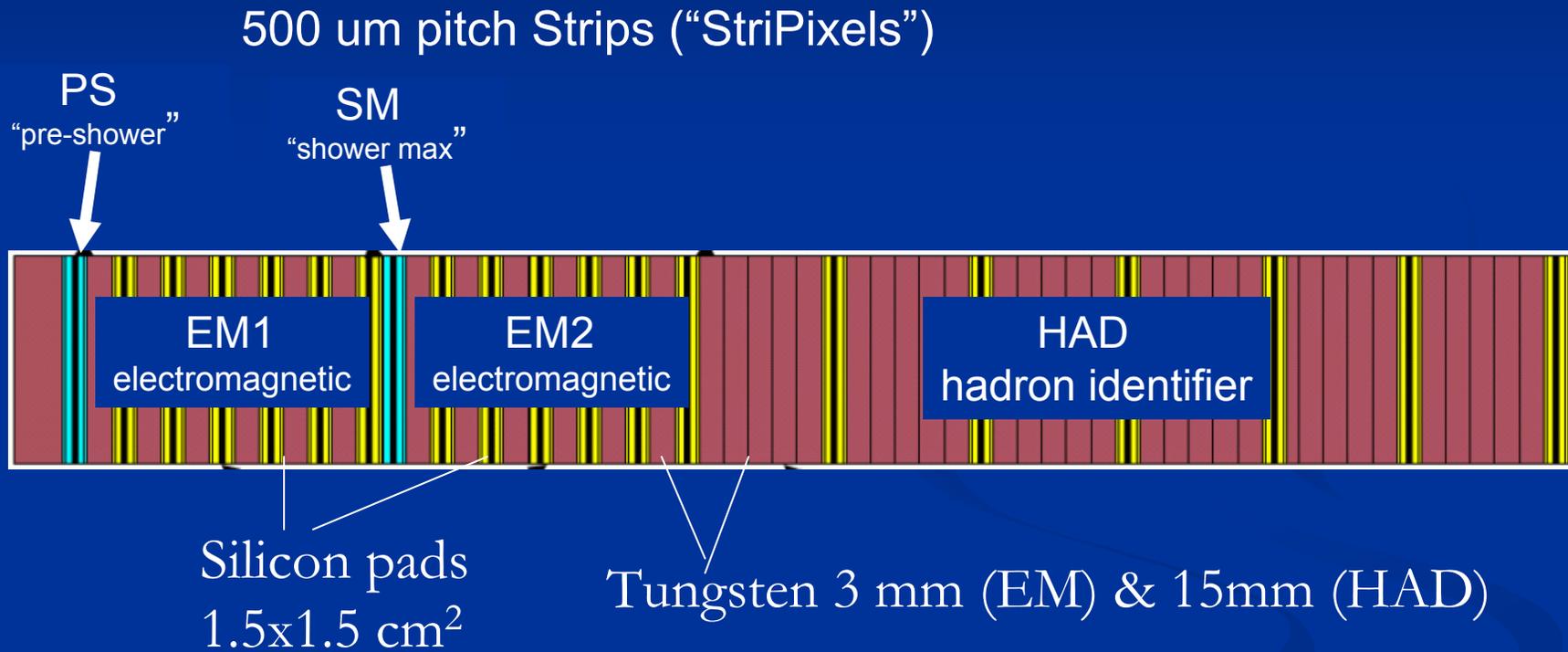


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# What is it?

## The parts of the NCC



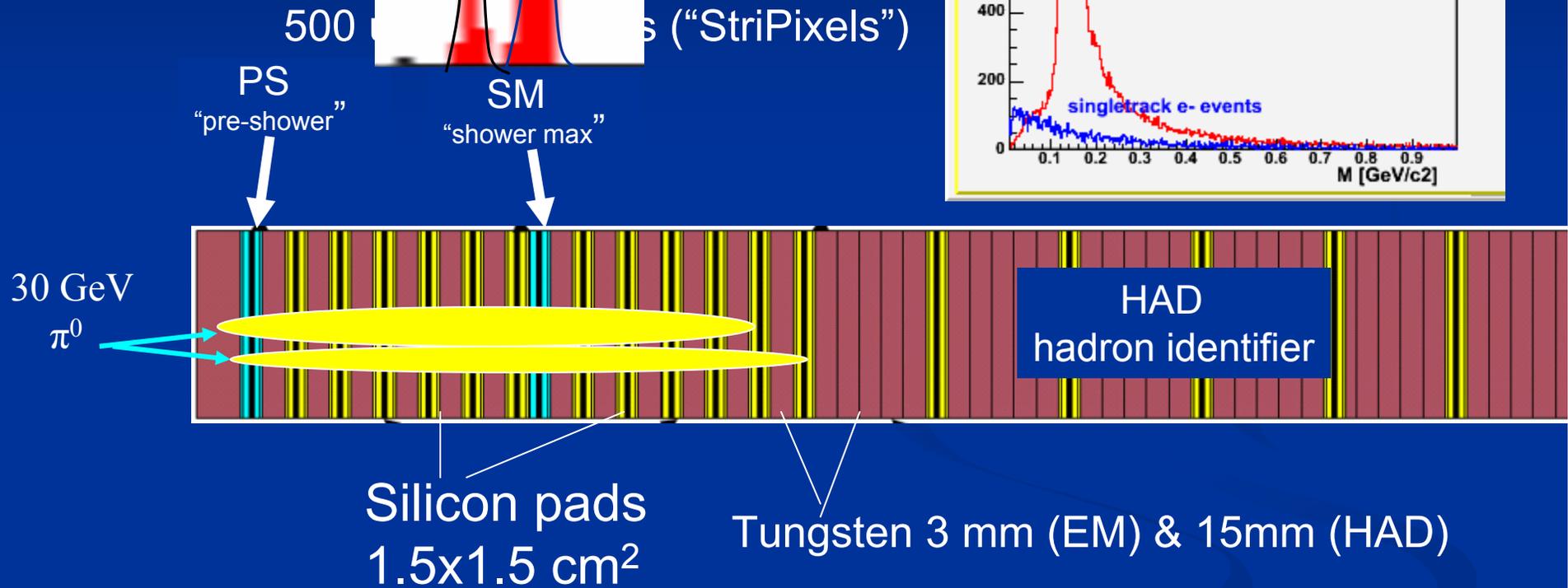
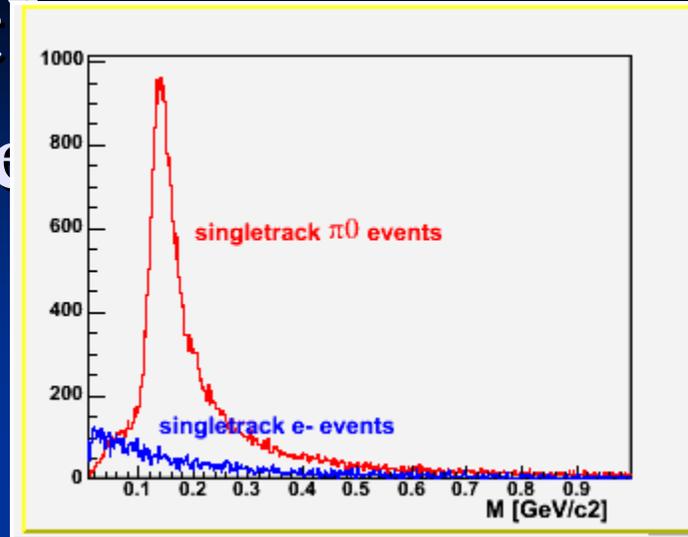
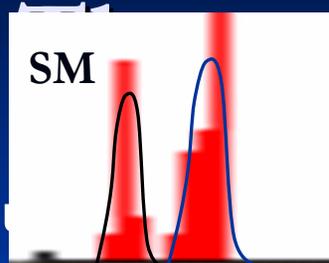
Depth:  $42X_0$  ( $1.6 \lambda_{\text{ABS}}$ )

$$\frac{\Delta E}{E} = 4\% + \frac{18\%}{\sqrt{E}}$$

errata: NCC overview slide 10

# What is it

The PS and SM  
Detectors:  
identifying  $\pi^0$ s



Depth:  $42X_0$  ( $1.6 \lambda_{ABS}$ )

$$\frac{\Delta E}{E} = 4\% + \frac{18\%}{\sqrt{E}}$$

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# The PHENIX NCC Management, Budget Schedule

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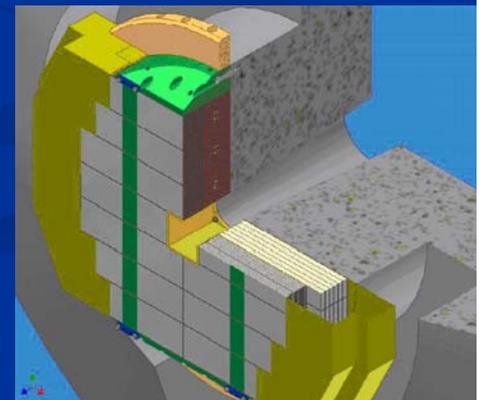
UCR

BNL Review

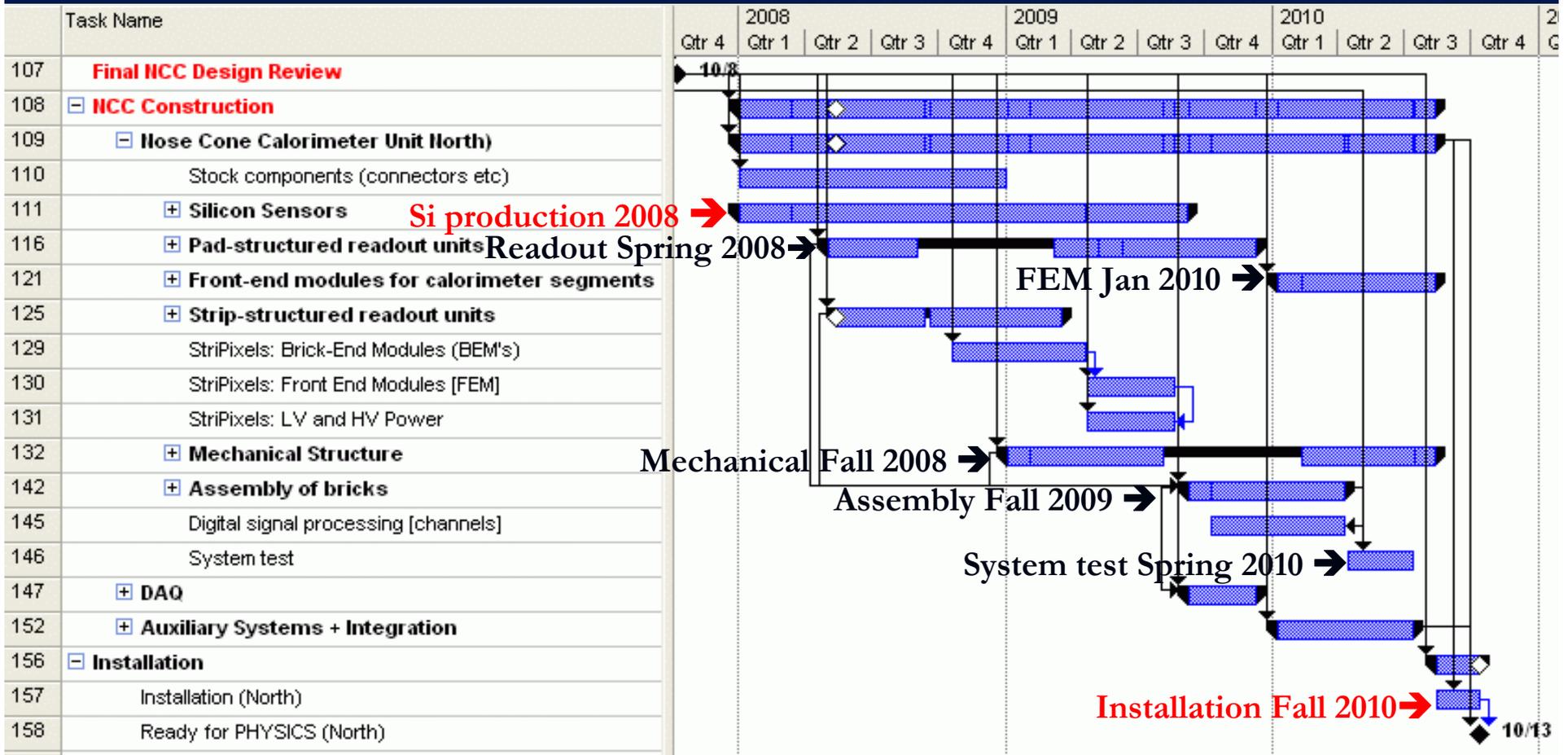
March 14-16, 2006



R. Seto



# Rolled up



**Critical Path Item: Silicon Production must begin in early 2008**

We are working with multiple vendors to produce the Si detectors: Performance is confirmed for ELMA(Russia), and evaluations are ongoing with prototypes from ON Semiconductor(Czech Republic) and SENS(Korea) ;

# Cost Estimate – major categories

■ Major Items	average contingency	Total cost
■ Si Sensors Pads:	32%	\$1,237K
■ StriPixels:	43%	\$169K
■ Pad structure readout units :	35%	\$222K
■ Strip structure readout units :	37%	\$197K
■ FEM Analog electronics: Pads	64%	\$231K
■ FEM Digital electronics: Pads	27%	\$822K
■ Mechanical structure (including W)	31%	\$523K
■ Assembly of Bricks	20%	\$55K
■ DAQ, Ancillary systems, Installation	30%	\$235K
■ Stock components	88%	\$220K
■ Total	35%	\$3.94M

■ Total cost includes spares, contingency and overhead