Ladder NIM Version 5

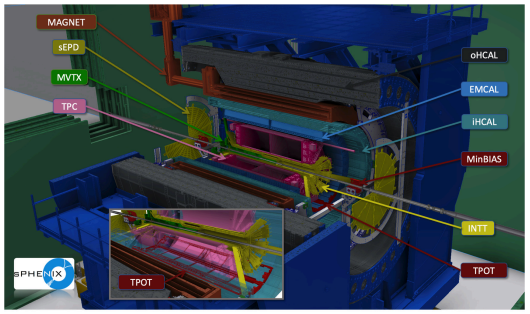

Figure 1: The mechanical drawing of the sPHENIX detector.

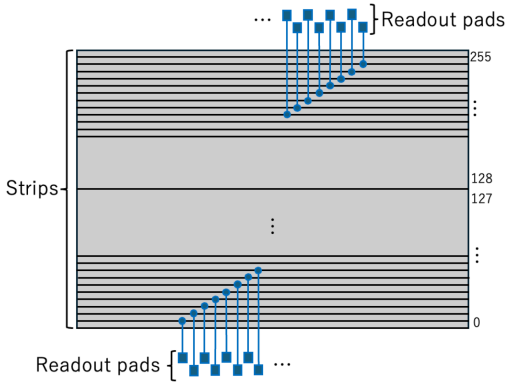

Figure 6: The schematics of the double metal structured strips and their readout lines [8].

Table 1
Number of the INTT silicon ladders of the inner and outer layers of the INTT barrel detector

	Inner	Outer
Number of ladders	24	32

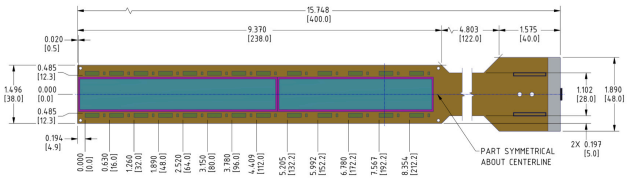

Figure 2: Schematics of the INTT module and the dimensions of each components, i.e. the silicon sensors, FPHX chips, and the HDI cable. Dimensions are given in inches, while numbers in brackets are in millimeters.

In Fig. 6, the strip runs horizontally (longitudinal direction). The readout lines of each strip are wired perpendicular to the strips orientation using double-metal technology. The other end of the readout lines are connected to readout pads, which transmit data to the FPHX chips using a wire bonding. The strips channel 0 to 127 are wired to the readout pads laid out on the bottom of the figure, while the strips from 128 to 255 are wired to the pads on top of the figure.

Acknowledgments

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