Minutes of Strip CMOS sensor progress report meeting, V.1

*2015-03-31*

*Present:* B.Hommels, J. Dopke, C. Buttar, D. Bortoletto ,,I.Mandic, , RNickerson, V.Fadeyev, Z.Liang, J. Zhang, A. Grillo, C.Klein, D.Maneuski, , H.Grabas, J. JohnJohn, M.Kodan, Matt, P.Keener, R.Plackett, R.Wang, SLAC, S. Dong, F.Wilson, Forest, M.Kodan, T.Huffman  
 [taken from Vidyo listing of attendees]

*Apologies* Ingrid, Matt, Marcel

INDICO address: <https://indico.desy.de/conferenceDisplay.py?confId=12224>

*Next Meeting*

The next meeting will be 14th April 2015

*General*

Layout document attached, last chance to comment. Email list now operational.

There will be a meeting with AMS in Austria in April, Daniel will keep group informed.

Anyone who wants to present something at TWEPP should contact Richard/Vitaliy

Noted that Richard Plakett will work with Vitaliy as interface to CERN foundry services, or some other route to submission.

The estimate of submission costs compiled by Vitaliy was attached to the indico site for comment.

*CHESS-ii design*

Herve reported verbally on the status of the chess-II design. (tbupdated)

*CMOS Modules*

Daniel reminded the group of work done earlier by a working group on the issue of module design, the principle difference to work done by Alex is the segmentation of reticules. Four wide is probably much more efficient than five, but it was observed that the division into chunks was not critical, but preserving the general layout was for timescale reasons. Hence 10cm wide staves.

*Testing HVStrip1*

Todd reported on work with irradiated devices. 27MeV protons to 8x10^14 neq. These are under study with 55Fe , 90Sr and with MIPs at DESY. The devices remain alive, but the signals are lost in the noise. It was suggested that DAQ values would make a difference and that Todd should talk to Ivan.

*Testing CHESS 1*

Igor presented latest results on on irradiated devices. Fluences up to 5x10^15neq are now in hand and three devices have been measured. The signal size measured with Sr90 drops at 5x10^14 , consistent with acceptor depletion completed and the collection region being reduced. The leakage current also increases above 80V consistent with charge multiplication.

*Test Kit Status*

JayaJohn reported on the AMS-CHESS1 daughter and mother boards are almost complete.