

Minutes of the Linac4 Diagnostics Working Group Meeting held on 8 October 2007

Present: Y.Cuvet, K.Hanke, B.Mikulec, C.Vuitton

Agenda:

1. Communications
2. Follow-up of open actions
3. Working drawings for the profile monitors.
4. AOB

1. Communications

Skipped due to the limited participation from BI.

2. Follow-up of open actions

Action for C.Vuitton and Y.Cuvet to provide working drawings for the profile monitors. See point 3.

Action for U.Raich to develop controls and read-out for chopper line wire scanners. U.Raich not present.

Action for U.Raich to communicate rack space and cabling needs for chopper line wire scanners. U.Raich not present.

Action for K.Hanke and M.Pasini to complete the specifications for the emittance meter. K.Hanke has iterated with R.Scrivens and completed the list. The information has been sent to D.Gerard.

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Action closed.

Action for E.Bravin to draft a time planning for the emittance meter. E.Bravin not present.

3. Working drawings for the profile monitors

C.Vuitton has sketched the mechanical lay-out for the SEM grids in the linac. The design is based on the one for the slow wire scanners in the chopper line. The overall length of the chamber in the beam axis is approximately 50 mm. This does not include flanges which have to be integrated in the chamber in order to have a design as compact as possible.

The question was discussed whether the horizontal and vertical grids should be on the same support or independent. This choice is for BI. C.Vuitton will discuss with U.Raich and C.Dutriat.

Assigned to	Start date	Description	State	Result	
U.Raich, C.Dutriat	2007-10-08	Make technical choice for H and V SEM grids		reported 22 October 2007	edit

The question was raised what the best choice for the wire material is. This choice is for BI.

The question was raised what the expected frequency of use is. K.Hanke said that during the commissioning the devices will be heavily used, while during operation they will be used less frequently. Impossible to give a figure.

Concerning the slow wire scanners in the linac, Y.Cuvet proposed to use the design of the ones in the chopper line which some adaptations (vacuum chamber diameter etc.). As for the travel distance it can be the same as for the ones in the chopper line, certainly not more.

4. AOB

K.Hanke reported that there was a meeting on magnet design and work is progressing.

Next meeting in 2 weeks from now.

-- KlausHanke - 09 Oct 2007

This topic: SPL > Minutes08October2007

Topic revision: r5 - 2008-06-30 - FrankGerigk



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