

Meeting on May 14th 2002

Minutes taker Ina Reichel

Those present I. Reichel, A. Wolski, A. Zholents

Absent(excused) W. Wan, J. Corlett

Date May 15th 2002

Distribution

J. Corlett
I. Reichel
D. Robin
W. Wan
A. Wolski
A. Zholents

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1 Database of lattice files (I. Reichel)

Problem: We want to use either RCS or CVS but we need it to run at least on UNIX and Windows.

CVS is available on UNIX, RCS probably, too. Andy actually uses CVS on a Windows-PC for files located on a UNIX machine at DESY. So it should be possible to use CVS for the project.

Ina will ask Russ Wells if we can use disk-space on the web-server of the project to store the files.

Ina will try to get a system set up ASAP in order to facilitate sharing the lattice files.

2 Design of the first bunch compressor (I. Reichel)

Ina presented a preliminary design based on two Double Bend Achromats (DBA). Each achromat bends the beam 45° , i.e. each bend by 22.5° . The bending radius is about 50 cm.

The bending radius should be larger to minimize effects from coherent synchrotron radiation. Sasha suggests to use at least 1.5 m (corresponding to 3 kGauss). In order to keep within space requirements this means using less than 45° bending radius.

We do not want to do the compression only with the DBAs as this leaves us no flexibility on the amount of compression. In order to avoid having a separate compressor Ina will design a line using Triple Bend Achromats (TBA) instead of the DBAs. This should make the lattice more flexible.

3 Analysis of the second bunch compressor (W. Wan)

Moved to next meeting due to absence of speaker.

4 Differences between MAD and COSY (W. Wan)

Moved to next meeting due to absence of speaker.