

MAD9 developments

❑ MAD9 discussion group: cern.mad

Please use it for discussion, proposals, questions, not bugs.

❑ MAD resources Web page

Link from usual MAD home page:

http://wwwslap.cern.ch/~fci/mad/mad_home.html

Please contribute!

❑ Basic MAD9 job for LHC Version 6.-2

[/afs/cern.ch/user/j/jowett/public/MAD9/Testing/LHCsampleJob.mad](afs/cern.ch/user/j/jowett/public/MAD9/Testing/LHCsampleJob.mad)

No errors yet.

❑ Upgrade of Madtomma 'Mfs packages

Work for MAD8 *and* MAD9.

New features for combining tables (e.g. SURVEY and TWISS, ...).

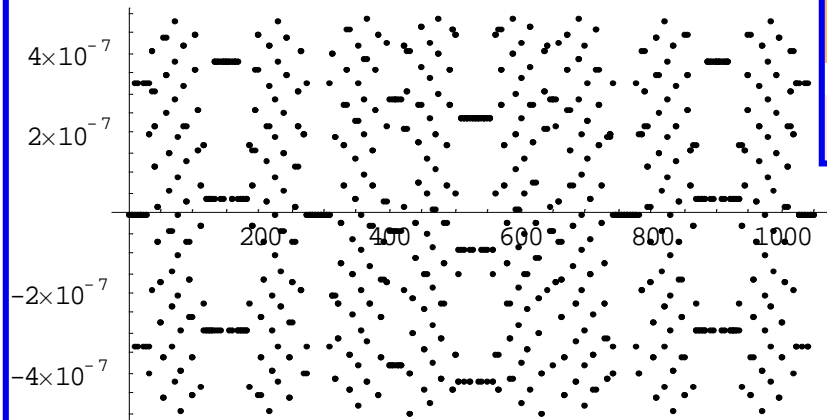
Simple example in:

[/afs/cern.ch/user/j/jowett/public/MAD9/Testing/MAD9TableTest.nb](afs/cern.ch/user/j/jowett/public/MAD9/Testing/MAD9TableTest.nb)

MAD9 Tables

Example, combining SURVEY and TWISS

```
ListPlot[mfsColumn[survey, "S"] - mfsColumn[optics, "S"],  
PlotRange -> All]
```

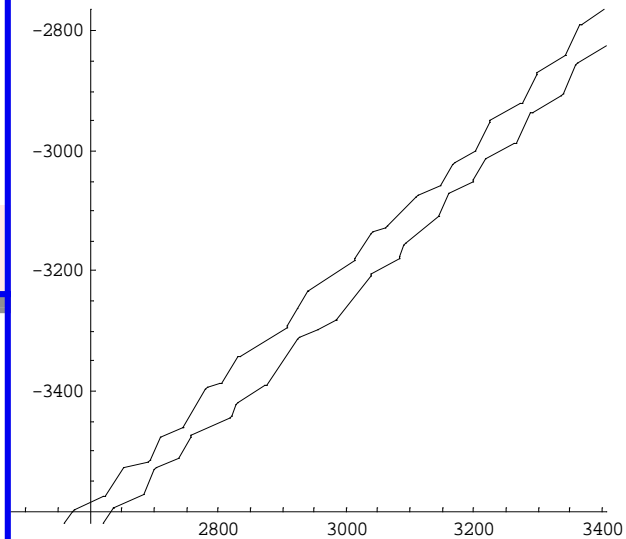


- Graphics -

```
First[Timing[  
surveyoptics = mfsMerge[{survey, optics}]  
]]
```

0.05 Second

```
Show[{outer, inner}, PlotRange -> prange]
```



“Beam
envelope” in
horizontal plane

- Graphics -

Will be possible with *all* information
output by MAD.

MAD working conventions

MAD input files

- .str** strength files
- .seq** sequence files
- .mad** anything else including either of above.

MAD output files

- .tfs** table outputs
- .mou** standard output

No more file names like **match.IP2**

Agreed with Elena so far ...

Variable names

Drop quotes inside variable names

Probably hard to drop periods and underscores although possible for database.

Currently going on ...

- ❑ Some checking of equivalence of results from MAD8 and MAD9

JMJ, via mfs

- ❑ Error description for LHC

EW, ...

- ❑ Various people willing to help

AFG, TR, PB, CLRC, ...

Hope to try out machines other than LHC.