MAD9 Task Force Meeting 19/4/2000, Agenda

- AA
  - We need to update the compiler ...
- JMJ
  - Current test version of MAD9 on Linux
    - New features, changes, fixes, …
  - New production version
  - MAD home page
  - MAD User Guide
- JP/JBJ
  - Aperture
- AOB

Test Version of MAD Version 9

❑ Test version recommended for LHC work

Only available on LXPLUS (Linux) system in CERN, changes frequently.

`~mad/public/mad9/bin/mad9`

❑ Fixes and features

- Faster than on HP or IBM Unix.
- Matching results given in input syntax, extra precision: **`KQF :=0.1;`**
- Extras in the headers of TFS tables (beam emittances)
- VALUE and SYSTEM commands now work in MATCH and ERROR modes.
- Fix (Andreas's) for bug causing problems for Ring 2 in the LHC when the ANGLE and K0 of dipoles had opposite signs.
- Julien's APERTURE module.
- DOOM should work again but doesn't, apparently …

❑ Plan to make a new production release soon

Executable (for Intel at least) available by download ⇒ facilitate installation elsewhere.

Coming changes

Specification of misalignments

```
EALIGN,DX=real,DY=real,DS=real,
   DPHI=real,DTHETA=real,DPSI=real, MREX=real,MREY=real;
```

will become

```
EALIGN,DELTAX=real,DELTAY=real,DELTAZ=real,
   DPHI=real,DTHETA=real,DPSI=real,MREX=real,MREY=real;
```

for consistency with output via **ATTLIST** command.

⇒ **ATTLIST** provides a *complete, flat description* of the machine including misalignments and multipole errors

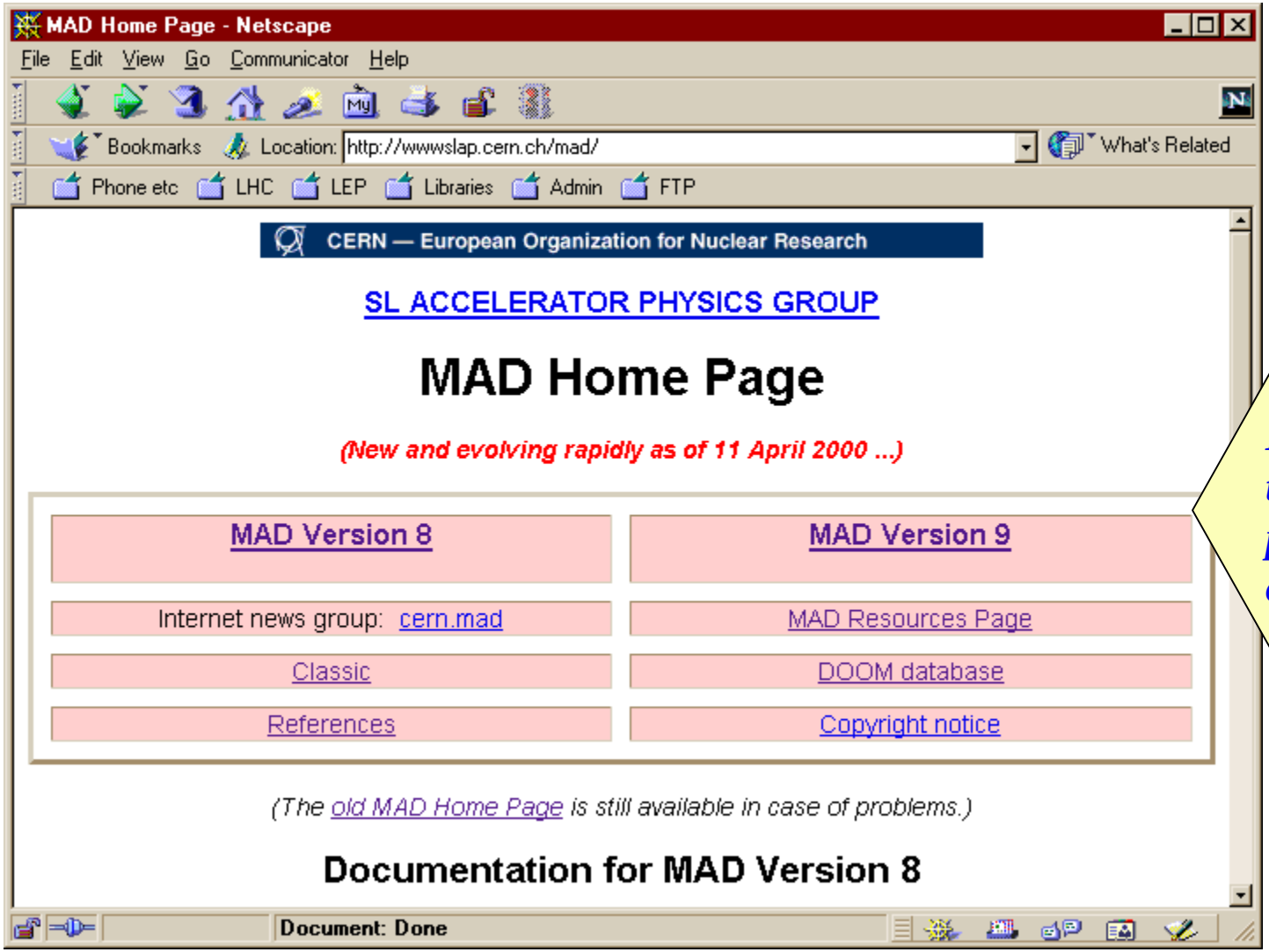
- transform into machine description for other programs, etc.
- combine with other tables (LIST for geometry, optical functions, etc.)
  ⇒ compute many things

Dispersion from Bends

Working on this …

The MAD Home Page

http://wwwslap.cern.ch/mad = http://home.cern.ch/mad



If it doesn't look like this then you're probably using an out-of-date link!

MAD Version 9 User Guide

Publication policy

Changes are being made all the time, but not all known problems fixed yet.

Latest version in HTML or PDF (looks different now …) from MAD Home Page.

If you must print, I suggest you only print pages you need.

Please recycle all printed copies dated before April 2000.

Please report bugs in the documentation. Use the same method as for bugs in the program.

Other documents

Class structures for CLASSIC and MAD9, physical methods, etc.