



# ***MAD-X Progress***

- **Production Version  
4.00.XX (XX = 04)**



# *Production Version*

- Since more than 3 months we are preparing the next MAD-X production version.
  - One issue is the elimination of the individual BV flag.
  - We are still investigating the simultaneous orbit correction.
  - Equally important is the work on Twiss which show many difficulties (threader off for lines etc) and some serious chromatic problems (derivatives of disperison, T always closed, chromaticity wrong in presence of coupling). We reached a reasonable limit with bug fixes and workarounds.
  - Most relevant was a very large number of smaller and larger Bugs (mostly memory crashes).
  - Several module keepers did not have the adequate time to fix there modules. It is very time consuming effort for the custodian to make sure all examples work. On the other hand the example checking has revealed many problems:
- A full example checking cannot be done more than once a year which means that there will only one production version per year!**



# Bugs

- Examples of Juas did not work any more due to corrupted “REFER” attribute.
- There were numerous memory crashes!
- Despite this 3 months campaign we are **NOT** at the end of it!!!
- Example 10 days ago (after I thought I was done!) from **DESY** showed 4 major bugs:
  - 2 related to a problem with the **DELETE** command (fixed by HG)
  - 1 that showed that the **HARMON** attribute is ignored (fixed last night HG)
  - 1 that demonstrates that the **REPLACE** command in **SEQEDIT** is not working (to be done)