

TWISS being tested

□ Procedure

</afs/cern.ch/user/j/jowett/public/MAD9/TwissTest/CompareTwiss.nb>

Setup for automated comparison using equivalent *parametrised* template input files that should be equivalent for MAD8 and MAD9, e.g. fairly standard LHC job

- MAD8

```
ON_ORBIT      := <*OnOrbit*>;
ON_NONLINEAR  := <*OnNonlinear*>;
...
OPTICS, DELTAP=<*deltap*>, filename=<*MAD8twiss*>, &
```

- MAD9

```
Const ON_ORBIT      = <*OnOrbit*>;
Const ON_NONLINEAR = <*OnNonlinear*>
p0=450;
Beam1: Beam, particle=proton, pc=p0*(1+<*deltap*>);
```

□ Further example templates for interesting cases

TWISS, TWISSTRACK, etc.

Please contribute. Needs errors later.