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# CLIC DR collaboration page

This is a page for exchange information on the CLIC DR and PDR between the CLIC DR group

Feel free to edit or add additional informations. In order to edit the page is necessary to register at Registration using CERN credential. External user may get an account going to the External account registration [↗](#).

## PDR parameters

|                            |                 |                        |
|----------------------------|-----------------|------------------------|
| Energy                     | GeV             | 2.86                   |
| Circunference              | m               | 383.95                 |
| Harmonic Number            |                 | 2560                   |
| Number of bunches/train    |                 | 312                    |
| Bunch spacing              | ns              | 0.5                    |
| Bunch population           | 10 <sup>9</sup> | 4.6                    |
| Number of dipoles          |                 | 38                     |
| Dipole field               | T               | 1.2                    |
| Horiz. Tune                |                 | 16.4                   |
| Vertical Tune              |                 | 12.31                  |
| Synchrotron Tune           |                 | 0.07                   |
| Damping times (tx,ty,ts)   | ms              | 2.68/2.66/1.33         |
| Mom. compaction factor     |                 | 3.755 10 <sup>-3</sup> |
| RF Frequency               | GHz             | 2                      |
| RF Voltage                 | MV              | 10                     |
| RF acceptance              | %               | 1.18                   |
| Equil. energy spread (rms) | %               | 0.1                    |
| Equil. bunch length (rms)  | mm              | 3.3                    |
| Number of wigglers         |                 | 36                     |
| Wiggler peak field         | T               | 1.9                    |
| Wiggler length             | m               | 3                      |
| Wiggler period             | cm              | 30                     |

## Lattice files

Current lattice:

Previous Lattice:

Old lattice:

## Software tools

The lattice design tool used is MadX, available from <http://mad.web.cern.ch/mad/> [↗](#). MadX produces can output

- a flat lattice description in a madx input language (.seq files). No drift, no lines, basically a set of variables and element declaration and a sequence of elements with their s position.
- a flat table file (.tfs files) that includes either element parameters (including drifts) and optics function or element name and assigned magnetic error and misalignments.

## People and their main interests

### References

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