

CLIC Note 6xx

Working title: CLIC parameters 2005

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Abstract

The new parameter set...

Geneva, Switzerland
April 13, 2005

1 Overview and rationale

Hans + Daniel

2 Physics requirements

Albert

3 Accelerating Structures

Alexej

4 Damping Rings

Frank Z. + Maxim

5 Beam Dynamics from Damping Ring to BDS

Daniel

6 Beam Delivery and Collimation

Frank Z.

7 Interaction Point and Backgrounds

Daniel

8 Linac Module layout

Walter

9 PETS

Igor

10 Drive Beam Generation and Decelerator

Roberto

11 DBA Accelerating Structures

Erk

12 Energy Flow and Efficiency

Roberto

13 Overall Layout and AC Power Consumption

Hans

14 Overall List of Parameters

Frank T.

Acknowledgements

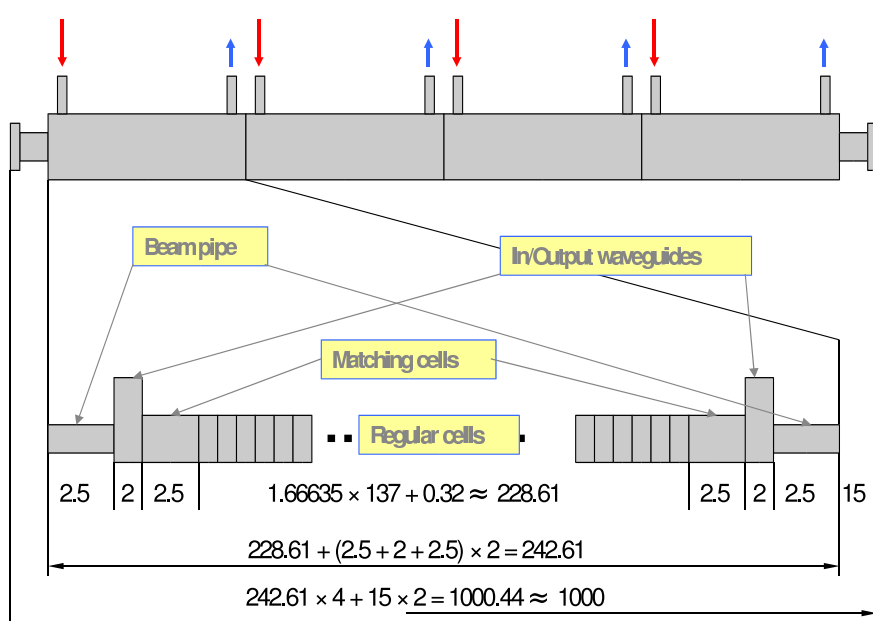


Figure 1: Schematic layout of the CLIC module (not to scale).

General Remarks

This note is not intended to be a design report. So please concentrate on the rationale that leads to the particular parameter choice and provide appropriate references for a more detailed description.

Please include information about assumptions on margins and overheads and mention if tolerances are included or not.

Instructions and Examples

Please type your text in a separate file called `some_name.tex`. This can be included in the general file by a line `\input{some_name}`. This eases the editing and avoids that you have to run \LaTeX on the whole file.

For structuring into sections, please use `\subsection{...}`. Some examples for Figures, Equations, Citations and Tables can be found below...

For your images, etc., just copy over the text from this example source file and add your caption or modify accordingly.

If you are not familiar with \LaTeX just send me your contribution as plain text and the images and tables in a separate file in your preferred format.

Example citation [1].

Figure 1 shows a schematic layout of the CLIC module.

- Example itemize
- next item

Example Equation 1

$$\Delta x(s) = \frac{\sqrt{\beta(s_0) \cdot \beta(s)} \cos(|\mu(s) - \mu(s_0)| - \pi Q)}{2 \sin(\pi Q)} \cdot \Delta x'(s_0) \quad (1)$$

Example Table 1.

Step	Power level for each harmonic f_i				
	9 GHz	12 GHz	15 GHz	18 GHz	21 GHz
1	-22.1 dBm	-18.6 dBm	-19.5 dBm	-20.7 dBm	-18.9 dBm
2	-	-	-5.6 dBm	-	-

Table 1: Table example.

References

- [1] R. Corsini, A. Ferrari, L. Rinolfi, P. Royer and F. Tecker, "Report on the operation of the CTF3 Preliminary Phase, 8 April - 24 May 2002", CTF3 note 049, PS/AE note 2002-141.