

# Repository Structure and Organization

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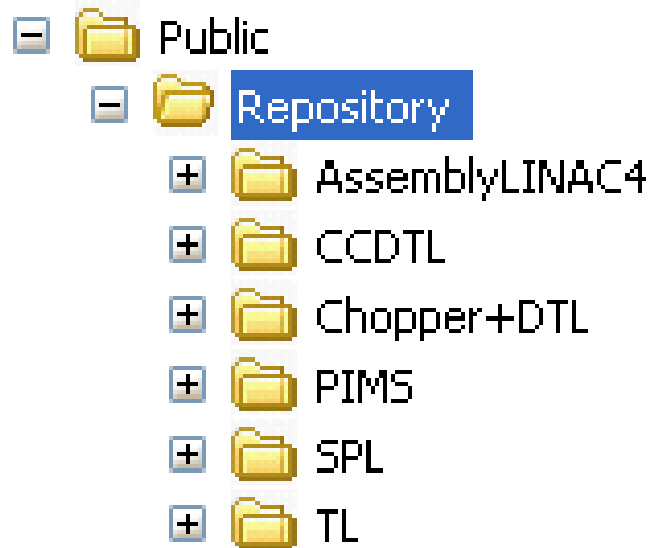
16/10/09

# Introduction

- The aim is to have the “last version” of every part of the Linac in only one folder for fast and easy access.
- Path:  
`\\cernhomeM.cern.ch\M\mgarcia\Public\Repository`
- Repository with the LINAC<sub>4</sub> updated files.

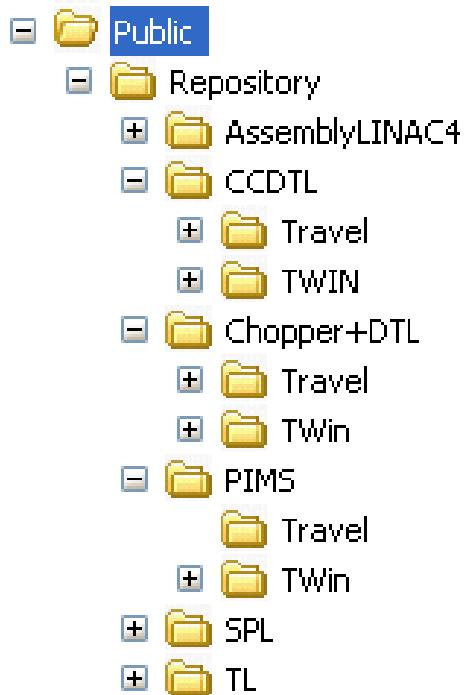
# File Structure

- There is one folder for each part of the LINAC, and one more with the assembly.



# File Structure

- Each part folder (i.e. CCDTL) is composed of two subfolder (could be more)



# Stored Files

- For Travel Simulations:
  - Input Beam (.dat)
  - Output Beam (.dat)
  - Line File (.in)
  - Results (AVGOUT.xls, RMSOUT.xls)
  - Graphs ( . xls)
  - Quad Values (.xls)

# Graphs File .xls


- In the Graphs (.xls) file → Data & Plots :
  - RMS Envelope x and y (mm)
  - RMS Phase (rad)
  - RMS Emittance x and y (mm.mrad)
  - RMS Emittance z (deg.MeV)
  - Average Energy (MeV)
  - Phase Advance per meter, x and y (deg/m)

[\\cernhomeM.cern.ch\M\mgarcia\Public\Repository\PIMS\Travel\Graphs\\_PIMS.xlsm](\\cernhomeM.cern.ch\M\mgarcia\Public\Repository\PIMS\Travel\Graphs_PIMS.xlsm)

# Quad Values.xls

- In order to have the parameters of the elements of the line in a more user friendly format, it has been created a new (.xls) file.
- It automates the process taking the travel.in file and generates an Excel file with the values of the elements (name, length, gradients of quads..)

<\\cernhomeM.cern.ch\M\mgarciaat\Public\Repository\PIMS\Travel\QuadValuesPIMS.xls>

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- Suggestions??
  - Missed Files??
  - Please, send me the updated files!