



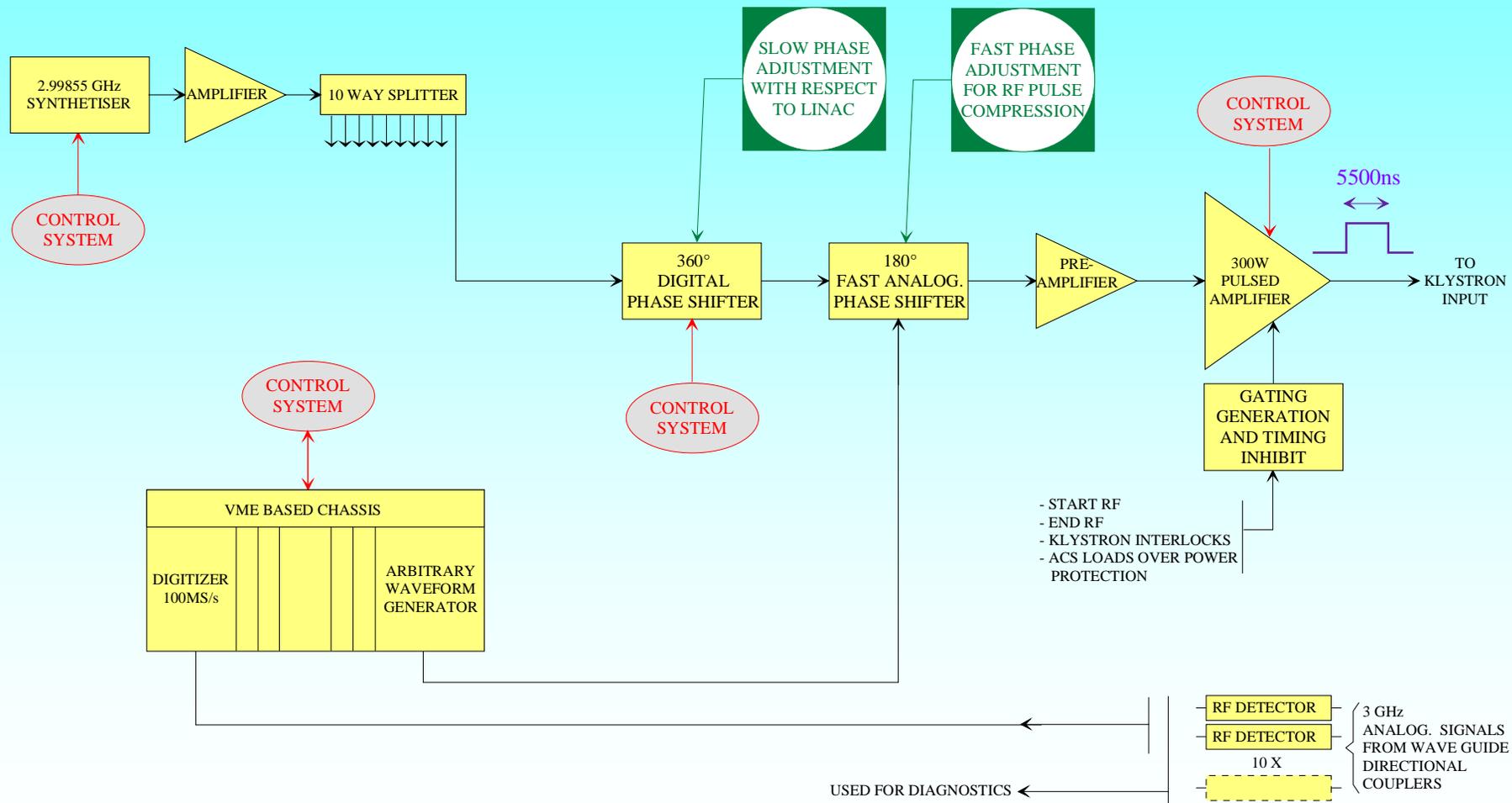
CTF 3

RF Low Level System

- Overview 3GHz system
- Status
- Pulse compression system
- 1.5 GHz sub harmonic buncher system



3 GHz RF LOW LEVEL SYSTEM





STATUS

- **RF Low level equipments installed before 2004**

– Network number	02	-> Bunching system (1PB + 1B)
– “ “	03	-> 2 Accelerating structures
– “ “	05	-> 2 Accelerating structures
– “ “	06	-> 2 Accelerating structures

- **RF Low level equipments installed in 2004**

– Network number	11	-> 2 Accelerating structures
– “ “	12	-> 2 Accelerating structures
– “ “	14	-> 3 GHz RF deflector

- **RF Low level equipments to be installed during this shut-down**

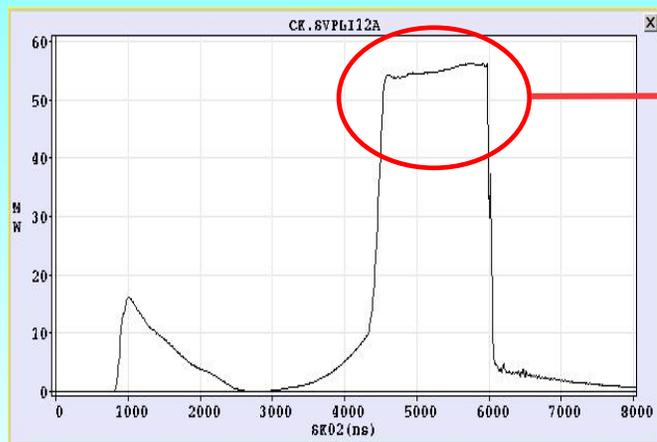
– Network number	07	-> 2 Accelerating structures
– “ “	13	-> 2 Accelerating structures
– “ “	15	-> 2 Accelerating structures
– “ “	01	-> 1.5 GHz Bunching system (3 x)



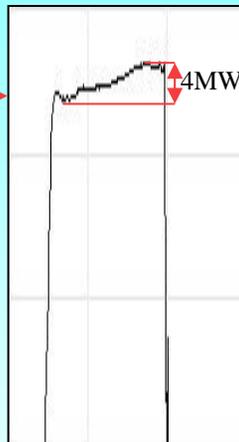
PULSE COMPRESSION SYSTEM



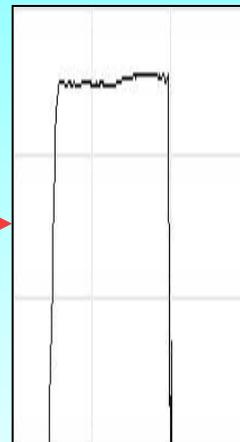
- A programme was installed in 2004 to optimize the flatness of the compressed RF pulse by iteration,



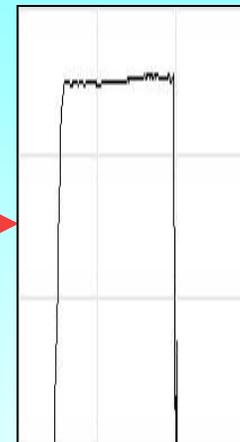
ACQUIRED OUTPUT COMPRESSOR SIGNAL



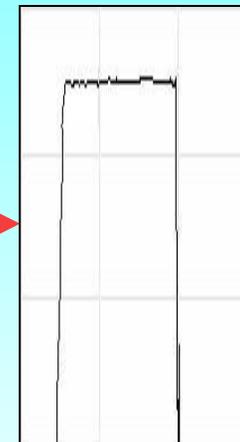
NO ITERATION



AFTER 1 ITERATION

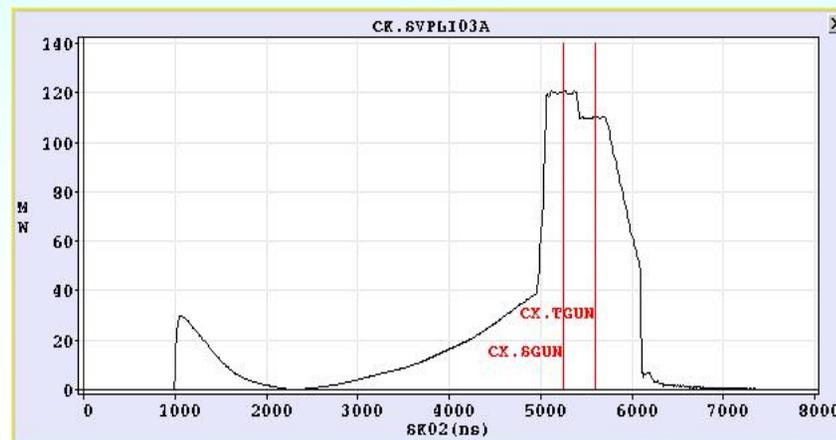


AFTER 2 ITERATIONS



AFTER 3 ITERATIONS

and some times used for beam gymnastics.





SUB HARMONIC BUNCHER LOW LEVEL SYSTEM

