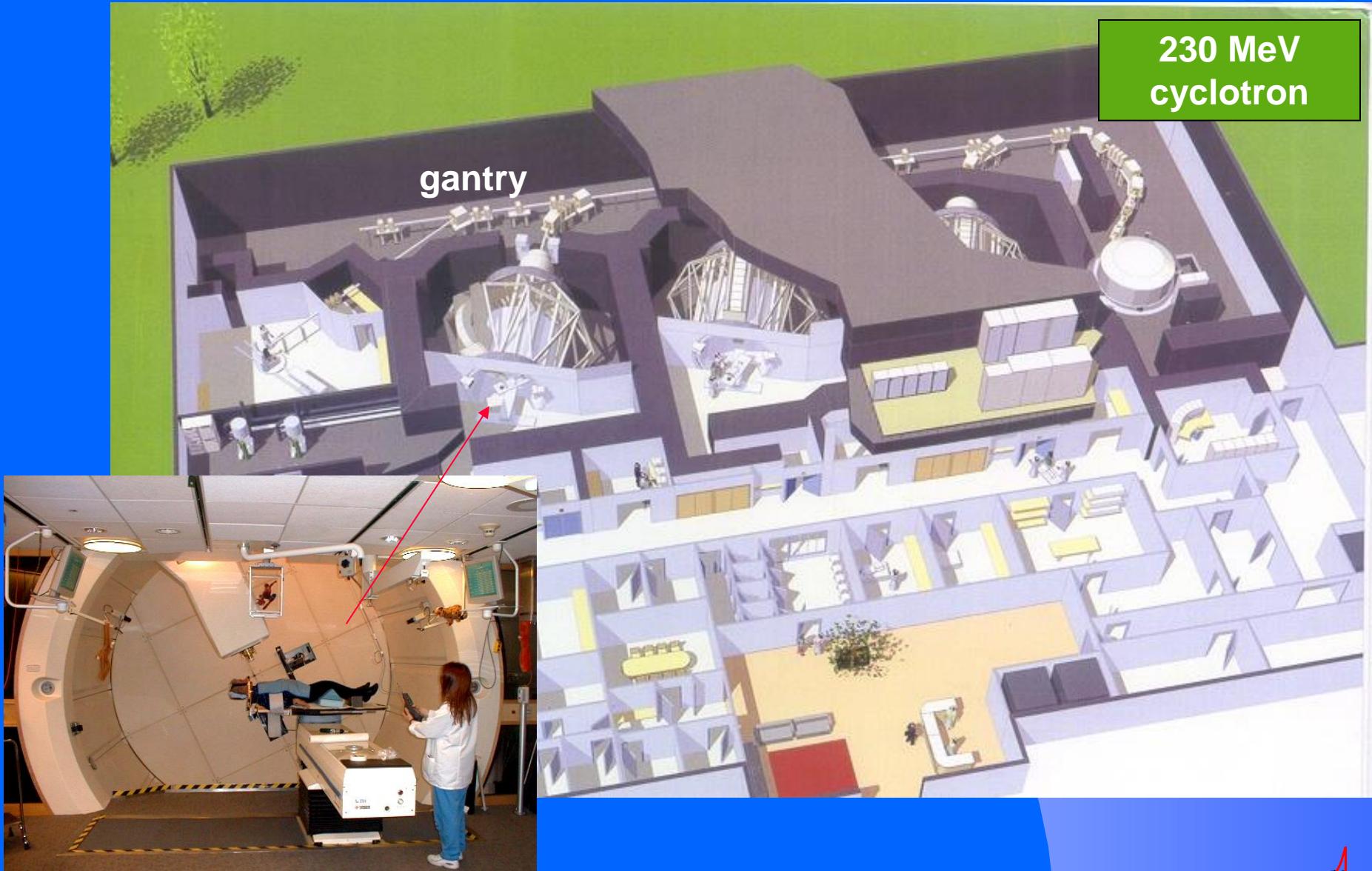


Commercial proton therapy centre by Ion Beam Applications (Belgium)

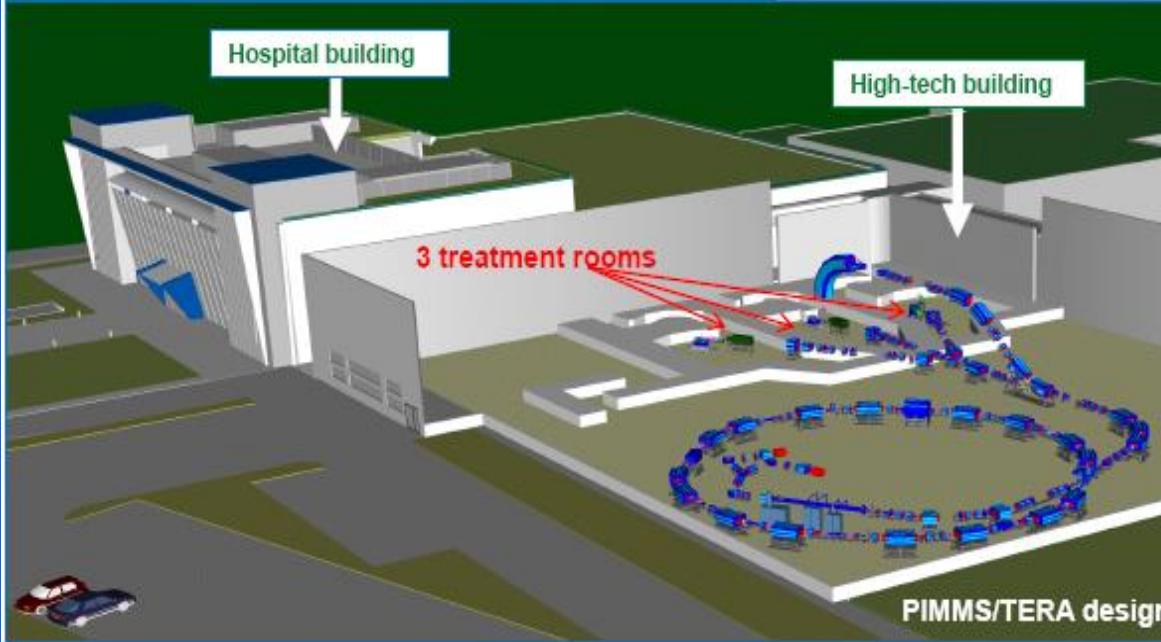


1st TERA program: design with CERN in PIMMS a synchrotron (for 400 MeV/u carbon ions and protons) and build it in Italy

PIMMS =

Proton Ion Medical
Machine Study

Phil Bryant et al

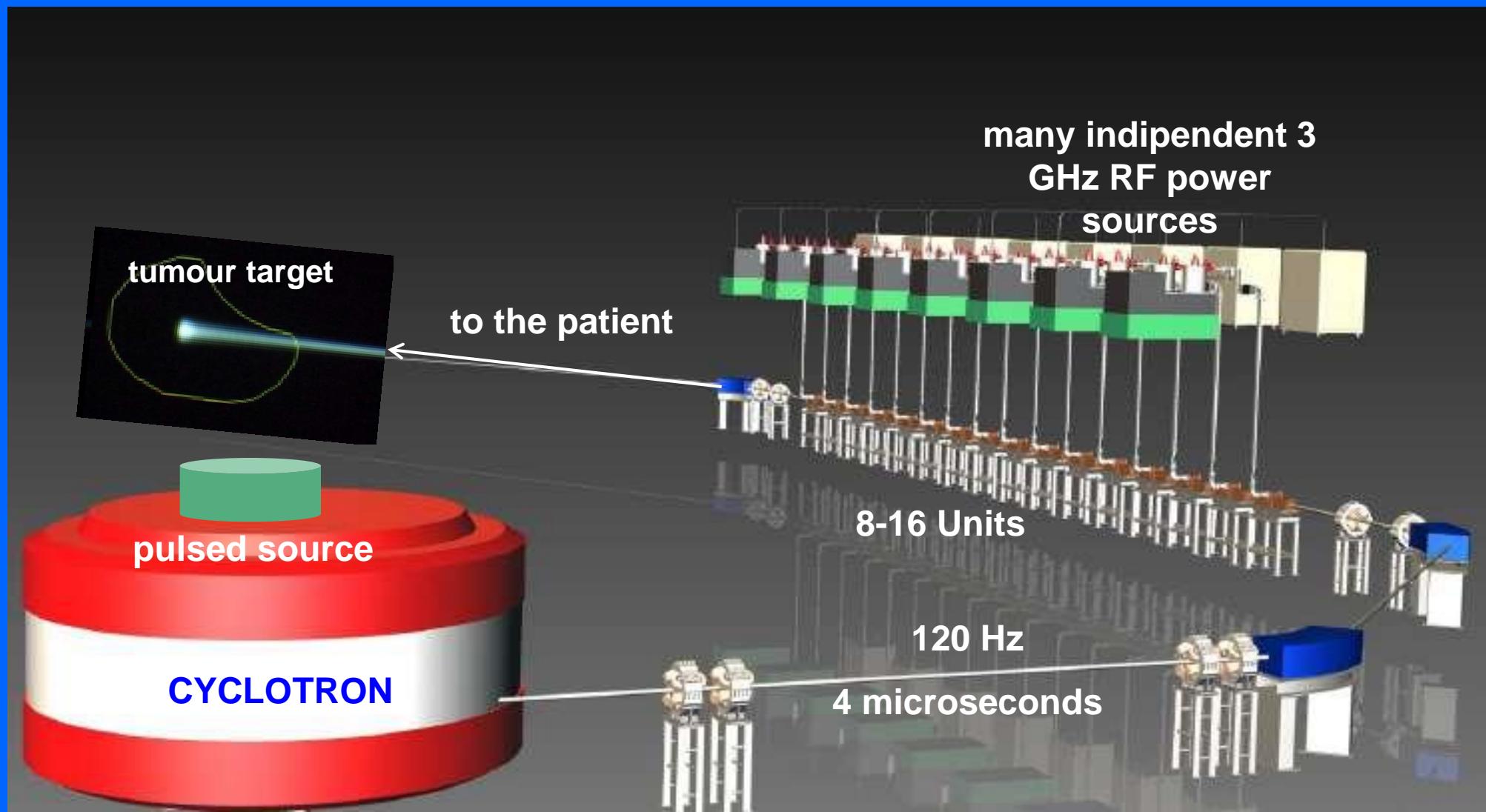


**CNAO FOUNDATION
in Pavia**

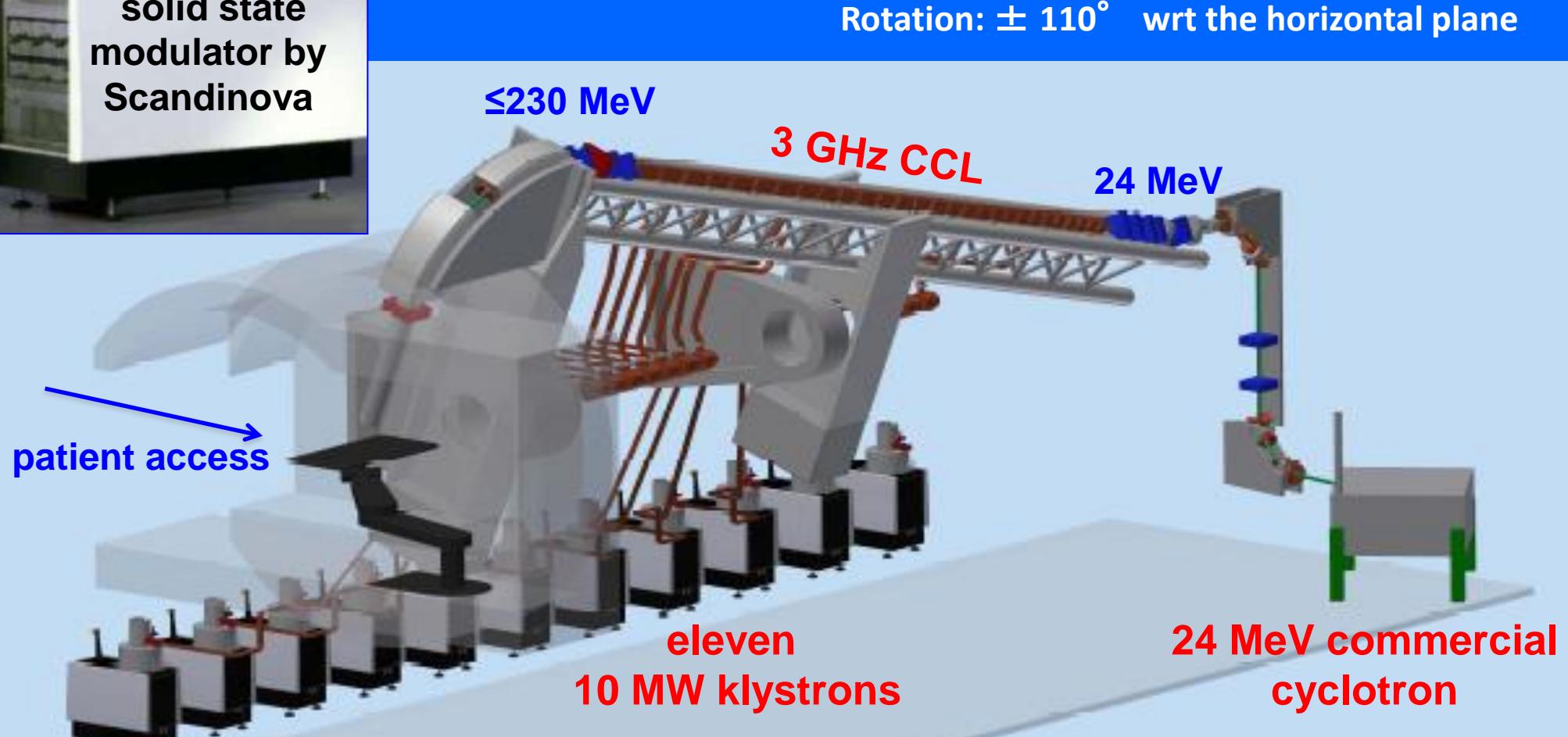
**Centro Nazionale di
Adtoterapia Oncologica**

**May 2013:
100 patients treated
with carbon ions
and protons**

2nd TERA program: development and construction of « cyclinacs »



*3RD TERA program: TULIP (TUrning LINac for Protontherapy) is a
“cyclinac”*



TULIP layout

