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## Treatment and development: a reasonable equation for Particle Therapy ?

From its early stages, Particle Therapy (PT) has combined the treatment activity with the developments of the treatment devices. The new expectations in term of number of patients to be treated (so in term of reliability) and in term of conformity (so in term of quality assurance and regulations to follow) asks the legitimacy of this combined approach.

The Institut Curie-CPO has now finished his major project of extension. It now includes a new accelerator (cyclotron 230 MeV from IBA), a gantry (IBA), the two existing fix beam rooms and a medical wing in order to have a full hospital environment. The target activity is around 700 patients per year with a significant part of complex pедиатry treatments.

According the different features of the facility, we will discuss cases where the constraints conformity-reliability-development are in stress:

- operation and maintenance of the facility including the accelerator (shared contract of maintenance with the supplier IBA)
- mode of planning and use of the facility towards the different activities (tuning, QA, treatment, maintenance, development,...), mode (clinical/service) and users.
- process of upgrades of the I.T. systems
- management and referring to regulatory authorities

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