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Development of the new IBA S2C2

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In an effort to respond to market needs, the decision was taken in 2009 to start the development of a compact superconducting synchrocyclotron as an alternative source of protons. This new accelerator will be integrated to future small footprint proton therapy centers called Proteus One ®.

This ambitious project, driven by a small dedicated team and run on a tight schedule and budget, is challenging in numerous aspects. Also, the S2C2 is a unique opportunity to start from a blank page, bring new technologies into the company, create new partnerships and incorporate novel ideas in the system architecture. Furthermore, other aspects affecting the competitiveness of the future products have also been taken into account. For instance, on site deployment costs, operability and maintainability are key aspects in technological choices and design.

This presentation covers the evolution of the project from initial requirements and sketches to the latest pictures of assembly and testing in our factory, describing all major sub-systems in detail and discussing a few of the difficulties encountered.

Please indicate preferred presentation (poster or talk?)

talk

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