

Academia-Industry Matching Event on Superconductivity for Accelerators for Medical Applications



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Superconducting medical accelerators at IBA

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In 2005, IBA started studies and developments of superconducting cyclotrons for medical applications. In this communication, we will present a summary of the history and characteristics of the two main superconducting IBA cyclotrons for particle therapy, namely the Cyclone 400 for proton/carbon therapy and the S2C2 dedicated to proton therapy, with a particular emphasis on their superconducting coil systems.

In the conclusions, we will discuss how IBA sees a trend in the use of superconductivity in therapy equipment.

Presenter: KLEEVEN, Wiel (IBA)

Session Classification: Particle therapy