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# [Plenary] Radiation Therapy Systems

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Starting with Gamma sources before moving to Xrays, Radiation therapy also proposes protons or heavier ions like carbon to treat cancer tumours with unrivalled accuracy. Today, radiation Therapy is a proven cancer treatment modality from which several tens of thousands patients benefit each year. But being a proven treatment modality does not mean it is not evolving.
In this plenary, we will start with an overview of radiation therapy systems using Xrays and heavier particles (protons, carbon ions), With a focus on the latter; we will depict their main characteristics and equipment needs for an efficient treatment. Then, we will describe and discuss a few of the current challenges in the field, with a focus on how various magnets technologies play a key role in addressing these.

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