

EARLY-CAREER RESEARCHERS IN MEDICAL APPLICATIONS @ CERN –  
SHORT TALKS

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## Design of a ‘bent linac’ for carbon ion therapy

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High-frequency linear accelerators are very suitable for carbon ion therapy, thanks to the reduced operational costs and the high beam quality with respect to synchrotrons, which are presently the only available technology for this application.

The ‘bent linac’, based on the latest accelerators technologies developed at CERN, introduces an innovative design tailored to better fit the accelerator footprint into existing hospital facilities and, at the same time, to provide a high quality, stable beam in the full range of operational energies.

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