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Design and commissioning of the RF-KO extraction at CNAO

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CNAO is one of the six hadrontherapy centers all around the world that produce both proton and carbon ions beams.

It is based on a synchrotron in which the beams are extracted by a slow extraction mechanism that uses a betatron core.

In the last years an electrostatic exciter has been installed along the ring in order to allow beam extraction using the RF-KO method.

The system has been commissioned and allows extraction according to the clinical beam parameters.

The paper illustrates how the RF-KO method has been implemented in CNAO under the hardware and software point of view. The characteristics of the proton and carbon beams will be also presented.

Funding Agency

Footnotes

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Yes

Primary author: MELIGA, Paolo (Centro Nazionale di Adroterapia Oncologica)

Co-authors: BRESSI, Erminia (Centro Nazionale di Adroterapia Oncologica); DEBERNARDI, Giovanni (Centro Nazionale di Adroterapia Oncologica); FALBO, Luciano (Centro Nazionale di Adroterapia Oncologica); PRIANO, Cristiana (Centro Nazionale di Adroterapia Oncologica)

Presenter: MELIGA, Paolo (Centro Nazionale di Adroterapia Oncologica)

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