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Final design of the SC202 superconducting cyclotron for hadron therapy

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The physical design of the compact superconducting cyclotron SC202 for proton therapy has been finished. Two copies of SC202 will be manufactured, according to the agreement between JINR (Dubna, Russia) and ASIPP (Hefei, China). First copy will be used for proton therapy in Hefei, and the second copy will be used to replace “Phasotron” in the research and treatment program by at JINR. Parameters of main systems and final schemes of extraction systems different for the Hefei cyclotron and the Dubna cyclotron are presented.

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