



## Status and Perspectives of the HELIAC-Project

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The linear accelerator HELIAC will deliver heavy ions with particle energies of 3.5–7.6 MeV/u ( $A/Z = 6$ ) at the GSI Helmholtzzentrum für Schwerionenforschung. Thanks to superconducting radio-frequency technology, it will provide high average beam currents in continuous-wave operation. The radio-frequency resonators of the Crossbar H-mode (CH) type are being developed in cooperation with the IAP of Goethe University Frankfurt. Their suitability for ion-beam acceleration was successfully demonstrated in an earlier phase of the project. The subsequent advanced demonstrator phase aimed to perform a beam test of a fully equipped series cryomodule; this test has recently taken place at GSI. During beam commissioning, the design energy of 2.7 MeV/u for argon ions was reached. This talk will present the current status of the project and recent activities, as well as the design of the complete HELIAC accelerator.