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Stand-Alone Cryomodule for HIAF booster upgrade

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Stand-alone cryocooler-based systems allow applications at facilities where no cryogenic equipment and expertise is available at large scale, or where a mobile system can be moved between beam lines based on different application. The main technical challenge of this technology is to minimize the heat losses to the liquid helium so that commercial self-contained cryocoolers are able to handle the thermal load, both static and dynamic.
This talk will overview published data on the designs and preliminary experimental performance characteristics of srf resonator installed in cryomodule based on commercially available cryocoolers.

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