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BESSY VSR and bERLinpro HOM loads development

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Two accelerator projects at Helmholtz-Zentrum Berlin (HZB), bERLinPro and BESSY-VSR (Variable pulse length Storage Ring) upgrade, need to design three variants of SRF cavities, 1.3GHz cavities for bERLinPro and 1.5GHz/1.75GHz cavities for BESSY-VSR. These cavities have adopted waveguide HOM dampers in their design, with a few tens of watts HOM power in each load for bERLinPro cavities and a few hundred watts for BESSY-VSR cavities. Jlab is collaborating with HZB designing and prototyping HOM loads for these cavities. In this presentation, we will report on the integrated RF-thermal-mechanical design as well as the latest fabrication and testing results of these loads.

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Session Classification: Design of SRF Cavities and HOM Damping Schemes