

Thermal Stress Analysis of the High-Heat-Load Crotch Absorber at the APS*

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Abstract

The Advanced Photon Source (APS) storage ring operation at higher beam current is one of the potential enhancements to increase beam brilliance. However, this would impact the beamline components and high-heat-load crotch absorbers. Thus, this analysis is conducted to better understand the impact of higher beam current on a water-cooled crotch absorber, made out of Glidcop, without introducing any heat-related problems.

Keywords: storage ring, high heat load, absorber

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