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## **Instability consideration in the presence of passive superconducting harmonic cavities**

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Passive superconducting harmonic cavities may cause two types of instabilities when operated in bunch lengthening mode. One is the mode-zero Robinson instability and the other is the periodic transient beam loading instability. In this paper, these two instabilities will be briefly introduced using the parameters of the Hefei Advanced Light Facility storage ring.

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### **Footnotes**

### **I have read and accept the Privacy Policy Statement**

Yes

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