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## **Transverse coupled-bunch instability driven by the resistive wall impedance at SuperKEKB**

*Wednesday, 10 May 2023 16:30 (2 hours)*

The growth time of transverse coupled-bunch instability (TCBI) in the vertical direction was measured at SuperKEKB rings. Resistive wall (RW) impedance is the primary source of driving TCBI. As a collider, special vacuum chambers are remarkable sources of RW impedance in addition to RW impedance from regular chambers. Such chambers include collimators where the chamber gap is very small and interaction region where the vertical beta functions are very large. The classical theory of TCBI based on uniform filling patterns is used to estimate the growth time and compared with experimental results.

### **Funding Agency**

### **Footnotes**

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

Yes

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