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## Our experience with vibration and damping material

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The KEKB accelerator is being upgraded to SuperKEKB, using the same tunnel as KEKB. The upgrade is based on the “Nano-Beam” scheme, wherein the beam size is reduced to 50 nanometers in the vertical direction and 10 microns in the horizontal direction at the interaction point (IP). Vibration in the tunnel, especially at the IP, could be a critical issue that may result in luminosity degradation. Vibration in the SuperKEKB tunnel will be reported along with our test results with the damping material called “M2052” alloy, which is a manganese-based alloy containing copper, nickel and iron.

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