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SUPERKEKB MAIN RING TUNNEL MOTION

SuperKEKB is a next-generation B-factory machine, which aims to achieve a peak luminosity 40 times higher than that of KEKB. It will be built utilizing the existing KEKB tunnel. The SuperKEKB construction started in 2010, and the beam commissioning is scheduled to take place in 2015. Newly fabricated magnets are now being installed in the tunnel, and initial alignment work has begun. Effects of the construction of new utility buildings around the tunnel perimeter are observed by a level survey, and monitored continuously by the BINP HLS system in the tunnel. The SuperKEKB tunnel motion due to such heavy construction is summarized, along with the effects of the uncontrolled tunnel temperatures on magnet alignment.

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