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## **Mon-Mo-Po1.10-03 [111]: Rotational test of integrated magnetic bearing using multiple HTS cubic bulk units.**

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We are studying magnetic bearings combining multiple cubic superconducting bulks. Calculate the placement by optimum calculation so that the fluctuation of the trapped magnetic flux distribution is minimized according to the cubic bulk arrangement and decide the optimum arrangement for the magnetic bearing.

In this experiment, eight magnetic cubic blocks were arranged in a square to construct a magnetic bearing surface. A verification experiment was carried out with a model in which the rotating floating body as a permanent magnet was sandwiched between upper and lower bearing surfaces, with the magnetic bearing surface as one side.

This research report summarizes the influence on rotational test etc. based on the index of optimal placement.

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