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A Novel HTS Magnetic Levitation Dining Table

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Highlight

- A novel magnetic levitation dining table is designed applied annular YBCO bulk arrays with concentric annular permanent guideway.
- A annular cryogenics vessel which used to Maintain low temperature environment of the HTS bulk array are designed for liquid nitrogen.
- A 3D-model finite element method is used for the YBCO bulk magnetic levitation system design.
- An equivalent magnetic levitation and guidance forces calculation rules are proposed aimed at the annular HTS magnetic levitation system stability.

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