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## Modification of TPS arc-cell vacuum system for installation of EPU66

*Tuesday, 21 May 2024 16:00 (2 hours)*

Modification of an arc-cell vacuum system (length 14 m) for the cell SR18 in the TPS storage ring is described, which includes (a) replacement of a new bending chamber (B1) with an increased vertical aperture from 9 to 18 mm to prevent the B1 chamber from being exposed to synchronous radiation from the upstream elliptically polarized undulator (EPU), and (b) incensement of three pairs of flanges to separate the old arc-cell vacuum system into four subsystems (S3, B1, S4, B2). In this paper, we will report the manufacturing processes, measurement data and vacuum tests of these vacuum chambers.

### Footnotes

### Funding Agency

### Paper preparation format

Word

### Region represented

Asia

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