

Status 6th BINP-FAIR-Workshop

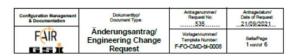


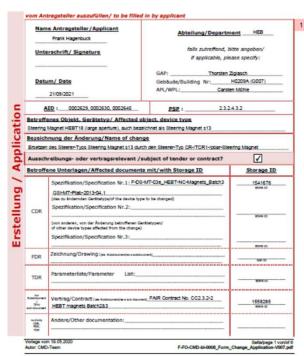
- Replacement of S13 by CR/pbar-steering magnet is a feasible solution.
- It is expected to be time and cost effective.
- Power supply should be changed accordingly.
- Engineering change request must be prepared.

Engineering Change Request 0535 FAIR == 1



- Request to replace S13 by CR/TCR1/pbar-Steerer
 - Main changes:
 - Reduced bending angle 2mrad (26mTm) -> 1.5mrad (20mTm) (measured value @10A 1.88mTm →1.445mrad) → acceptable
 - Field quality according to specification ±1% → ±1.5% (measured $\sim +/-0.5\%$)
 - No fast ramping → not needed for a DC beam line
 - No water cooling → advantage
 - Completely different power supply → CR/TCR1/pbar power supply can be used easily
 - Approval process going on
 - System design, magnets, power supply already done





Next Steps



- Next steps
 - New parameter table to be prepared (draft exists)
 - New specification drawings to be prepared
 - Formal change order

Gesellschaft für Schwerionenforschung Darmstadt

GSI-MT-Ptab-2021-02.0 S13 PSP 2.3 24.3.2

Parameter Table for HEBT steerer with large aperture

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Darmstadt, November 3, 2021

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