



**MT 26**  
**International Conference  
on Magnet Technology**  
Vancouver, Canada | 2019

Contribution ID: 1397

Type: **Poster Presentation**

## **Tue-Mo-Po2.04-02 [17]: Optimising a Magnetic Septum with Heating Jacket**

*Tuesday 24 September 2019 08:45 (2 hours)*

The extraction line of the future synchrotron SIS100 will have a series of three normal-conducting magnetic septa which deflect the beam upwards. Underneath the third septum there will be a beam stop for emergency extraction. Therefore, the entire region will be very likely activated with anticipated doses that forbid manual installation of a heating jacket. A mechanism which would automatically open this third septum and install a heating box proved too big during mechanical design studies.

Therefore it has been decided to include the heating jacket into the septum. This significantly reduced the space for the magnetic screen to protect the orbit region from stray field. We will present the successful methods, and some less efficient ones, which we used to get an acceptable protection of the orbit against stray fields.

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**Session Classification:** Tue-Mo-Po2.04 - Resistive Magnets for Accelerator and Fusion I