



Contribution ID: 6

Type: **Poster**

## **Bernd Stechauner: Final Cooling: Cell to cell beam transfer and re-acceleration**

*Tuesday 13 May 2025 19:10 (20 minutes)*

This study explores the implementation of an RF re-acceleration structure positioned between two final cooling cells. Various cavity configurations are analyzed under specific RF parameters to optimize the longitudinal beam dynamics. A detailed examination of the longitudinal phase space evolution within these RF systems is conducted, aiming to prepare the beam energy and adjust the energy spread to achieve optimal conditions for the subsequent final cooling cell. Additionally, solenoids placed between RF cavities ensure effective transverse beam guidance, further improving overall performance.

### **What category does your poster fit in?**

Muon Cooling

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**Session Classification:** Poster