



## Enhancing bulk niobium quality: addressing surface pits and delamination in cavity manufacturing

*Monday 22 September 2025 14:30 (3 hours)*

This talk presents an overview of the efforts to resolve niobium quality issues, specifically surface pits and delamination, encountered during cavity manufacturing for the PIP-II project. Initial surface quality problems led to a temporary suspension of production. Additionally, delamination was later discovered in both formed and unformed sheets, raising concerns about the material's integrity across multiple projects. This poster will detail the challenges faced, the investigative process, and the solutions implemented to restore and enhance the quality of niobium used in cavity manufacturing.

### I have read and accept the Privacy Policy Statement

Yes

### Footnotes

### Funding Agency

**Author:** SHABALINA, Anna (Science and Technology Facilities Council)

**Presenter:** SHABALINA, Anna (Science and Technology Facilities Council)

**Session Classification:** Monday Poster Session

**Track Classification:** MC3: Cavities