

**MICE IONIZATION COOLING
DEMONSTRATION**

Outcome of discussion

BASELINE AND ALTERNATIVE

- Reference:
 - ++-- considered “reference” (better performance):
 - 4% 4D cooling with central absorber only; 7% 4D cooling with central and secondary (LiH) absorbers
 - 6D heating [important to carry out the 6D analysis]
- Alternative:
 - ++-- considered “reference” (better performance):
 - 4% 4D cooling with central absorber only; case with secondary absorbers not studied
 - 1.1% 6D cooling [can this be measured?]
 - Perhaps greater similarity to NF; more like a realistic repeatable unit
- Engineering:
 - No additional constraint
- General:
 - Common analysis for:
 - Same material assumptions
 - 4D and 6D emittance
 - Transmission/scraping