



ID de Contribution: 32

Type: Non spécifié

## Experience of current projects : EU-XFEL, LCLS-II-HE, FRIB, RAON, ESS, SHINE, CiADS, S3FEL, PIP-II, Hi-Lumi

*mardi 9 juin 2026 11:00 (50 minutes)*

1. Achieved Yield vs. Design Specs: What were the final yield rates for your project's cavities, high-power couplers, and cryomodule components, and how did the achieved performance compare to the original design specifications?
2. Performance Transfer & Margins: What was the observed performance degradation from the Vertical Test (VT) to the final cryomodule (CM) operation, and what rationale was used to define the design margins necessary to account for this "VT-to-CM" transfer?
3. Industrialization & Repeatability: Which specific cryomodule assembly tools, cleanroom assembly tools, or standardized procedures were most critical for ensuring repeatability and maintaining high throughput during the production phase?
4. Supply Chain & Material Quality: How did material selection and vendor-specific quality assurance impact your production timeline, and did you encounter significant performance variations tied to different niobium batches or suppliers?
5. Logistics & Transportation: What were the primary technical difficulties encountered during the transportation of finished cryomodule components, and what specific monitoring criteria (e.g., vacuum, shocks, alignment) were used to validate the hardware's integrity upon arrival?
6. Spare Parts Strategy: What was the ratio of spare parts (cavities, couplers, etc.) required versus the total installed count, and was this "buffer" sufficient to cover the actual non-conforming parts during production?

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**Classification de Session:** WG-3: R&D for Mass production and Quality assurance for accelerator modules