

# Final Design Review Preparation: FSD Outcomes - Light Readout System

## FSD outcomes:

- What has been validated / confirmed?
  - *Design, production, QA/QC, integration with full module of the light panels and cold/warm readout components*
  - *The new cold and warm cables as well as the light readout feedthrough*
- What studies still needed before Final Design Review? Targeted completion dates?
  - *Performance studies: Analysis of the data to assess the performance needs to be finalized → Q1-2025*

## Risks:

- What subsystem risks have been reduced / eliminated by the FSD run?
  - *Most of the risks are analysis related and need to wait for the analysis results*
- Any new emergent risks?
  - *No new risks*

## Other open design questions:

- Outline any significant remaining open aspects of the design?
  - *Half of the scope for LRS system is covered by Bern. The other half needs further discussion and funding approvals. The idea is to split the FDR such that we proceed with the review of the cold part in Q1-2025. The warm part is uncertain right now.*
- Timeline/process/plan for resolution?
  - *We need a resolution in 2025*