

LAr R&D Progress Updates

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Lab Safety and Space Management

- ESH monthly walkthru
 - Monthly walkthru conducted by Dept safety last Wednesday
 - No complaints on us this time
- Safety Trainings
 - Please keep your ESR related safety trainings up to date
 - Dept safety checks the training records weekly now
- Contractor electrical work in highbay
 - The work is supposed to be finished by now
 - The restricted area has been reduced

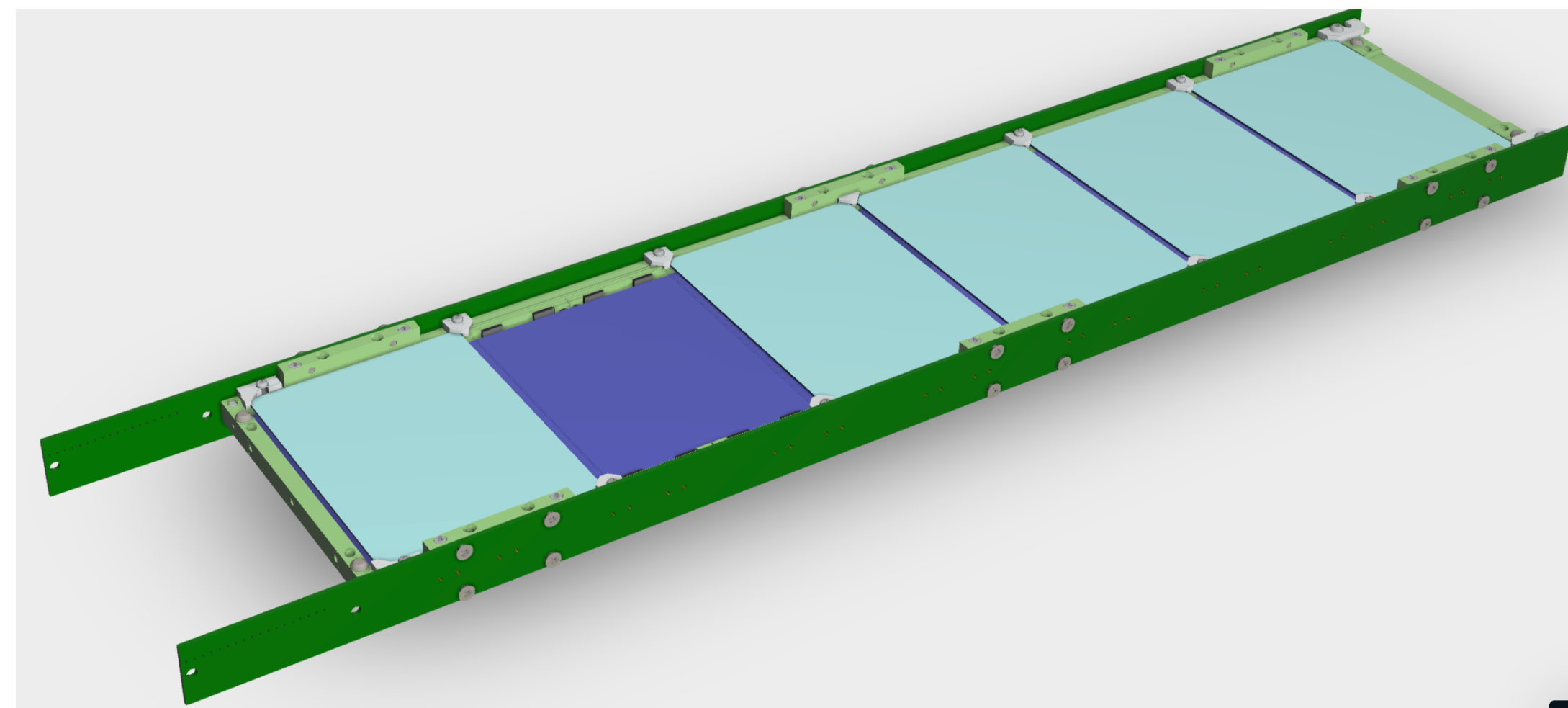
Xenon transfer work

- The first round of transfer has been complete
 - 3 detectors were empty
 - 8.07kg of Xeon were recycled
 - Pressure only up to 750psi, while the MAWP of the storage cylinder is 2200psi
 - We can fill 6 cylinders into 1 storage cylinder
- The assembly is done for the second round
 - The gas regulator was found leaking, I'm going to remove it for the future transfer
 - Plan to finish all transfer in Sep.



PDS R&D status

- pTP filters: Available
- SiPMs: 20x VUV SiPMs, 6 has been calibrated
- SiPM assembly strip: Trying to obtain from Thomas
- Mechanical housing: CIEMAT CAD available as reference; need to adapt/develop complete local assembly
 - 3D printing with PLA first, switching to cryogenic compatible long chain nylon PA12 filament in the future
- WLS plate: EJ-286, 1 mm × 143.7 mm × 143.7 mm; quote request, need an account number
- Readout electronics: Discussing potential solution with Shanshan
- Overall goal: Build a complete X-ARAPUCA prototype suitable for assembly and subsequent optical/cryogenic testing



260-L system JINST paper

- The revision submitted on 08/05 was accepted on 08/30
- The type set version for proofreading expected in a week
- Will update the arXiv once the publish version available