

SP PHOTON DETECTION CONSORTIUM

ETTORE SEGRETO

30% READINESS REVIEW

NOVEMBER 12, 2018

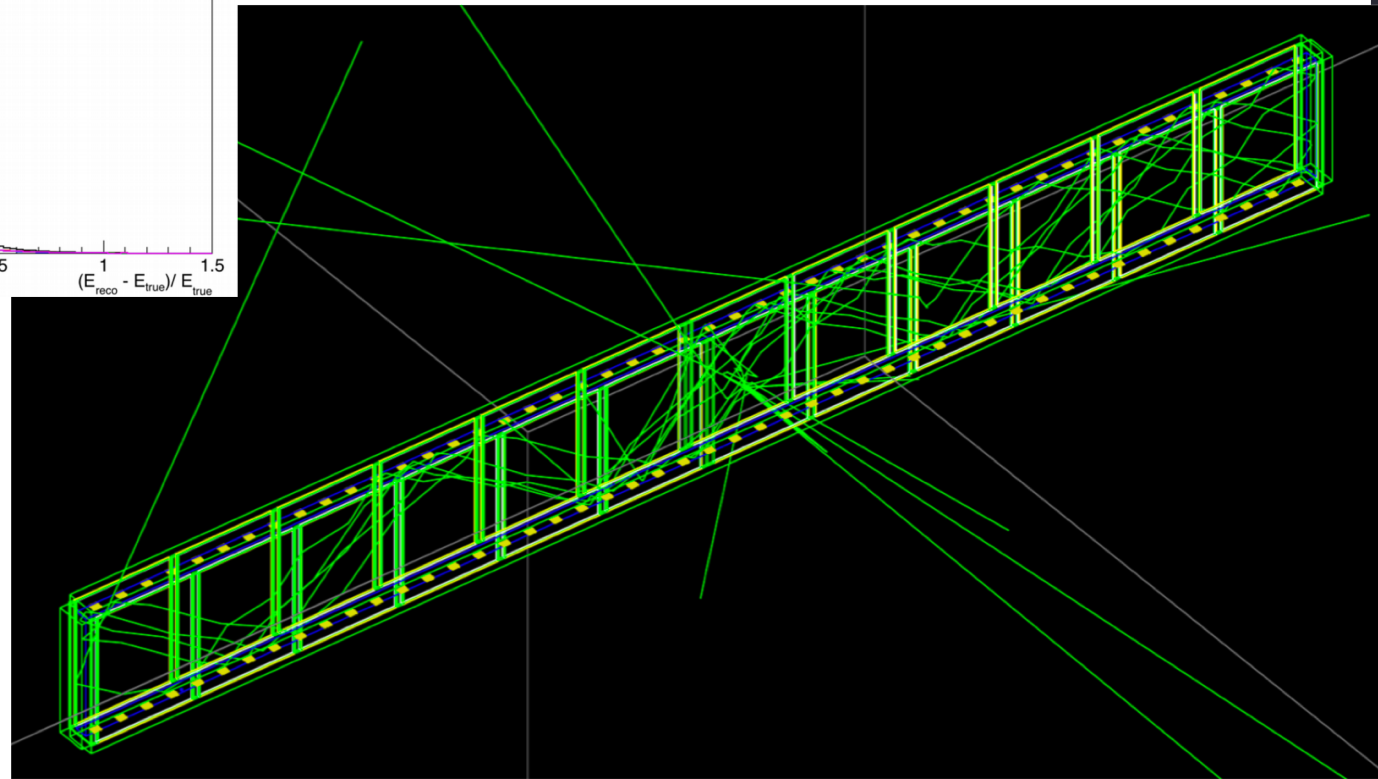
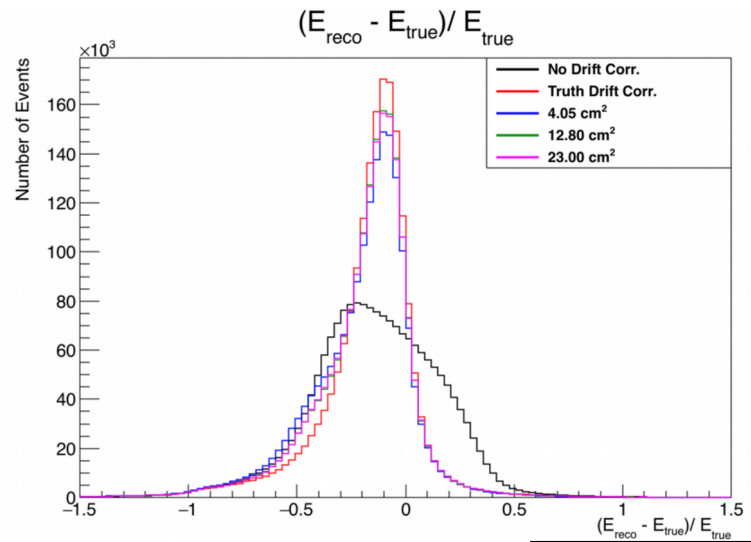


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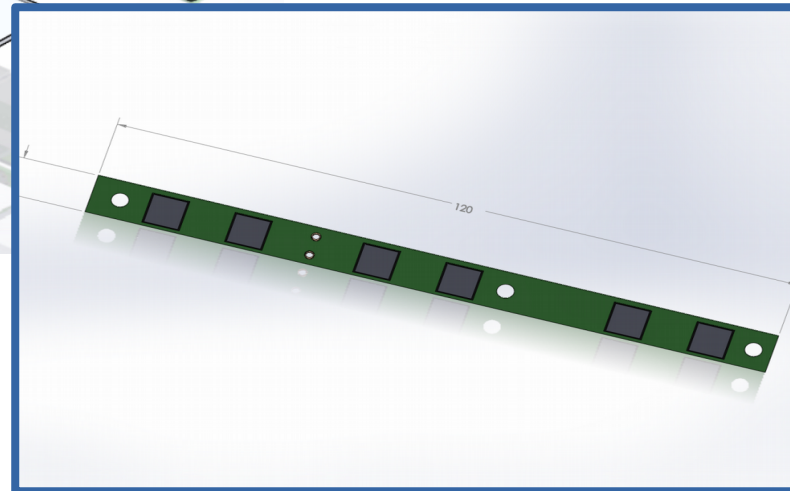
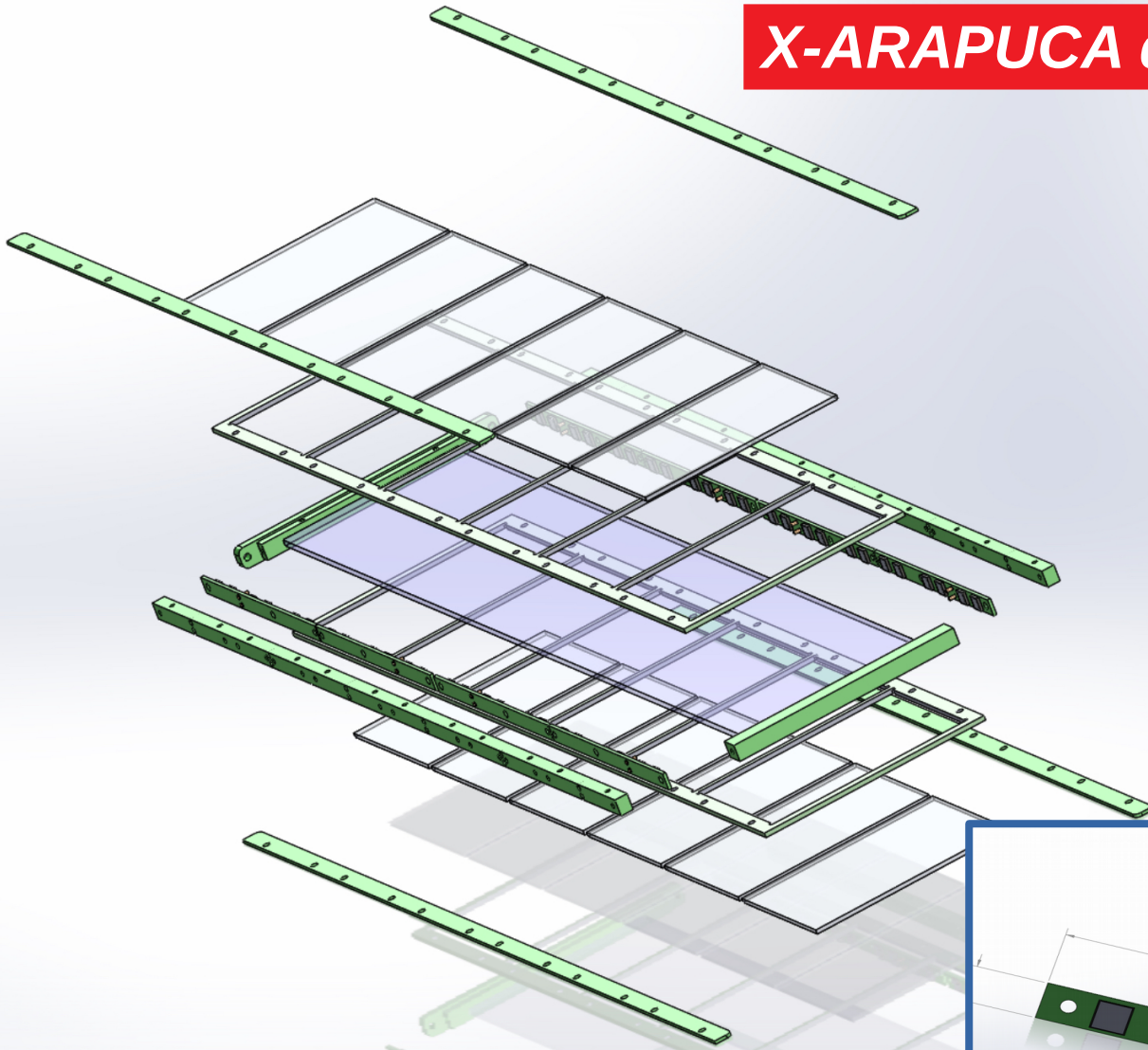


Simulations and requirements

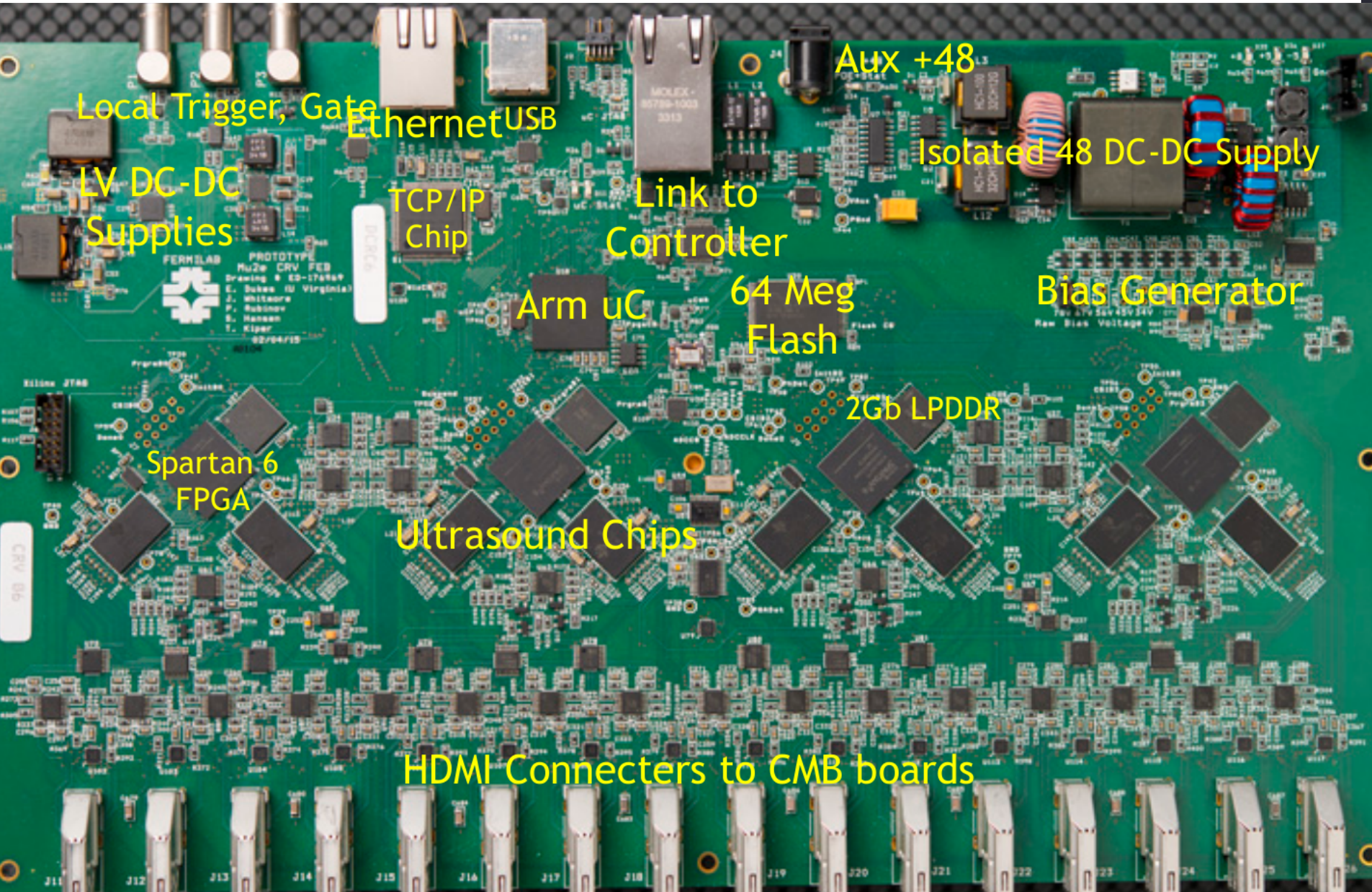
- **Great advances in the understanding of the requirements**
- **Great progresses in the simulation**



X-ARAPUCA design for DUNE

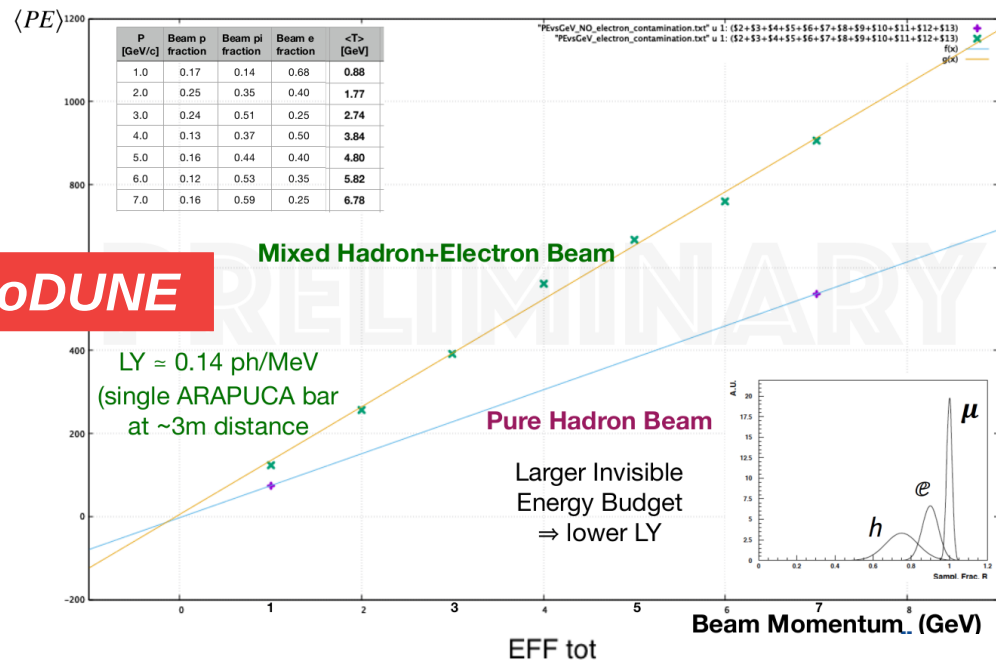


Digitizing board

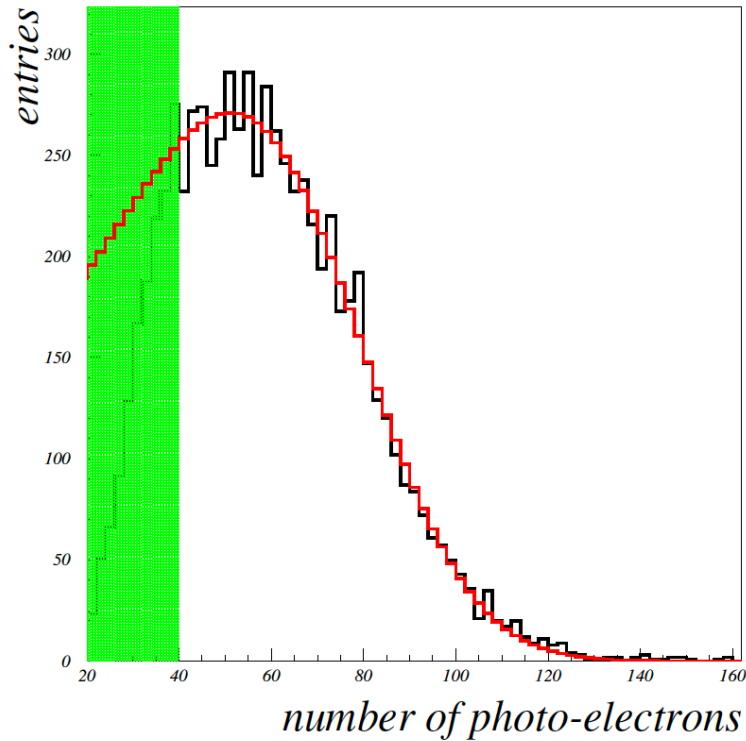


R&D results

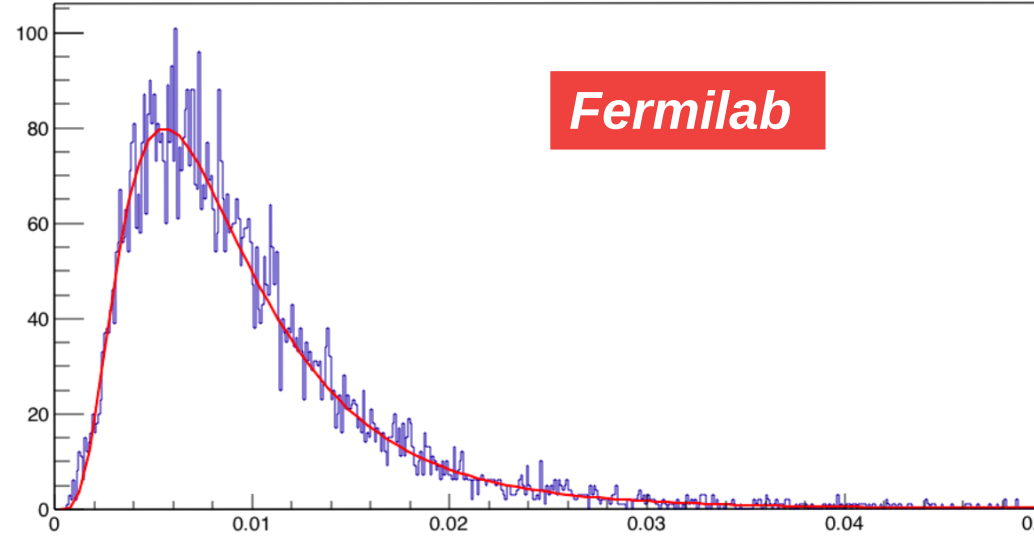
ProtoDUNE



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Fermilab



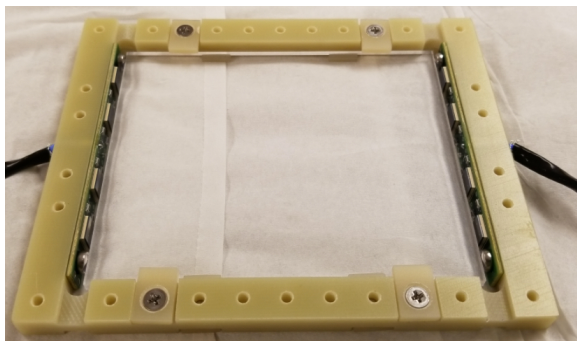
QA/QC and Database



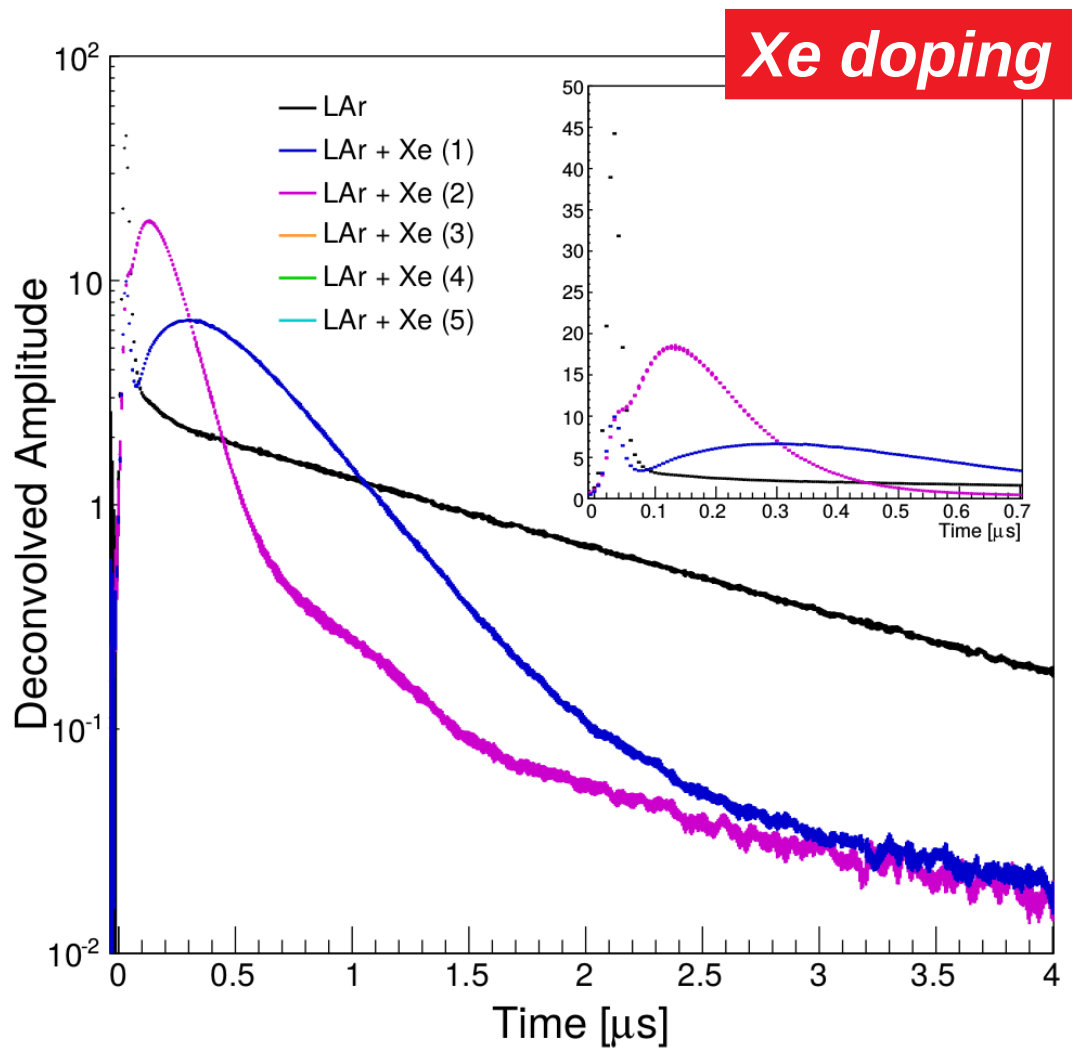
X-ARAPUCA R&D program

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Options



Summary

- SP PD system made great progresses in the last year, since the formation of the Consortium
- The International character of the Consortium and the integration of different abilities is being very beneficial
- The current design of the SP PD seems adequate to meet the requirements also for SN neutrino physics
- Next few months will be crucial to finalize the design of many of the components of the System