PPTAP Detector R&D Workshop

Liquid and Gaseous Detectors Session Summary

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Summary Points

- * A broad field with technologies in water cherenkov, liquid scintillator, liquid noble and gaseous detectors primarily serving the neutrino and dark matter communities.
- * Tightly tied with photodetection, but also electronics and integration. As projects grow, more coordination and potential for shared resources.
- * Some commonalities:
 - low background/radiopurity needs, underground
 - physics measurements of cross sections, doping & spectroscopy
- * Liquid nobles: needs of cryogenics, purification, high voltage and light and charge collection
- * Water, scintillator and gas technologies can benefit from new small pots of R&D funding. It's affordable!
- * Pool of experienced engineers would benefit the community.