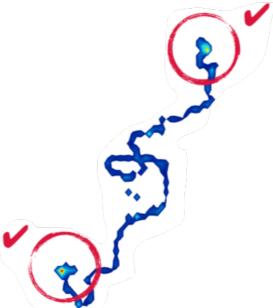


IF08: Noble Elements

Monthly Group Meeting (27 July 2020)



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Noble Element Instrumentation

Science

- Neutrino oscillation and interactions
- → Neutrinoless double beta decay searches
- → Dark Matter searches
- Collider physics

→ ...

Calibration

- Microphysics
- External calibration systems

→

Technology

- → Liquid Argon
- → Gaseous Argon
- → Liquid/Gaseous/Solid Xenon
- →Single-phase/Dual phase TPCs
- → Liquid Helium
- → Other use of noble element (scintillating bubble chambers)
- → Calorimeters

→ ...

Facilities

→ Extraction and Storage of noble element

-

Noble Element Instrumentation

Science

- → Neutrino oscillation and interactions
- → Neutrinoless double beta decay searches
- Dark Matter searches
- Collider physics

- Microph
- External calibration systems

Technology

- → Liquid Argon

- Overlap with many science groups and with some other topical groups le.g. instrumentation, computing...)
 - use of noble element (scintillating bubble chambers)

Facilities

- Extraction and Storage of noble element

How to join us!

- Email list: SNOWMASS-IF-08-NOBLE-ELEMENTS
- Slack Channel: #if08-noble_elements
- Website: https://snowmass21.org/instrumentation/noble_elements
- Plans for the group in near future:
 - → Build on top of the Instrumentation BRN effort
 - → Continue to solicit LOIs from the community (deadline 31 August 2020)
 - → SNOWMASS Planning meeting (5-9 October 2020)

Monthly Meetings (report from proposed LOIs)
Last Monday of each months @ 3PM CDT
Next: 31 August, 28 September