

Sanford Lab Round-Table Discussion on Underground Science

14 & 15 September 2021

Purpose of this Round Table:

To investigate where Underground Science will be going (and what sort of infrastructure will be required) over the next ~ 20 years

Speakers are expert in, and addressing:

A variety of 'traditional' physics topics – neutrinos, dark matter, and nuclear astrophysics; as well as emergent topics – QIS and atom interferometry

A spectrum of geology, geophysics, engineering uses and applications

Biology investigations

Essential support services including low-background counting

This discussion will help the Laboratory management plan for the future and better engage with the scientific community

Format

Unfortunately we are on zoom for these two days. Each participant has been requested to prepare a few slides to facilitate the discussion:

- introducing themselves,

- outlining the big science questions,

- and presenting approaches, needs, & requirements.

Following each presentation we invite the participants to opine on the science questions and investigate synergistic approaches, opportunities, or infrastructure.

The Sanford Lab Users and general underground science community have been invited to participate and will be able to ask questions and voice comments.

With time remaining at the end of each day we encourage further discussion by the panel.

Remarks from SURF Management

Mike Headley, Executive Director