

Status of SNOLAB Science preparations

SNULAB MINING FOR KNOWLEDGE CREUSER POUR TROUVER... L'EXCELLENCE

SNOLAB Objectives

- To promote an International programme of Astroparticle Physics
- To provide a very deep experimental laboratory to shield sensitive experiments from penetrating Cosmic Rays
- To provide a very clean laboratory
 - Entire lab at better than class 2000 to mitigate against contamination of experiments.
- To provide infrastructure for, and support to, the experiments
- Focus on dark matter, double beta decay, solar & SN experiments requiring depth and cleanliness of SNOLAB. Also provide space for prototyping of future experiments.
- Large scale expt's (ktonne, not Mtonne)
- Goal has been to create a significant amount of space for an active experimental programme to support current generation of experiments as early as possible.

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SNOLAB Schedule

- Underground Construction (Cube Hall, Cryopit, Ladder Labs, Lab Entrance)
 - Excavation 100% complete. Outfitting began June 2007. Now complete.
 - Spaces available now for experimental infrastructure installation..
 - Final infrastructure (Chiller, MPC, waste water plant) commissioned
 - Ladder labs opened, going clean.
- Surface Facility
 - Operational since 2005.
- Experimental Programme
 - Initial assignments of space underground.
 - Current allocations to: PICASSO, DEAP I, SNO+, DEAP-3600, MiniCLEAN, HALO.
 - Anticipated or under discussion: CDMS, EXOgas 200, COUPP, 2-phase LAr, low background counters to measure 39Ar, future Cobra upgrade...

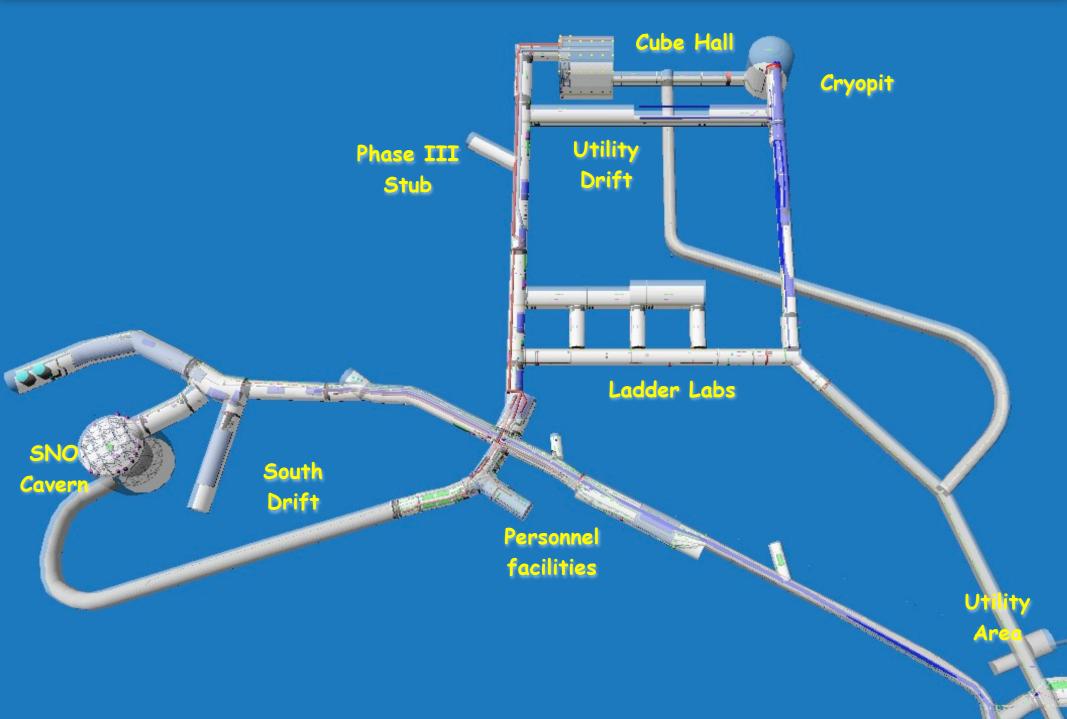


Experimental Programme

Experiment	Solar nu	0nuBB	Dark Matter	SuperNovae	Geo nu	Other	Space allocated	Status
SNO+	V	V		V	V		SNO Cavern	Underway
PICASSO			V				SNO Utility	Running
DEAP-1			V				SNO Control	Running
DEAP-3600			V				Cube Hall	Underway
miniCLEAN			V				Cube Hall	Underway
HALO				V				Underway
PUPS						Seismicity	Various	Running
SuperCDMS			V				Ladder Labs	Request
EXO-gas		V					Ladder Labs	Request
COUPP			V				Ladder Labs	Request
DarkSide			V				Ladder Labs	Request
PICASSO-III			V				Ladder Labs	Planning

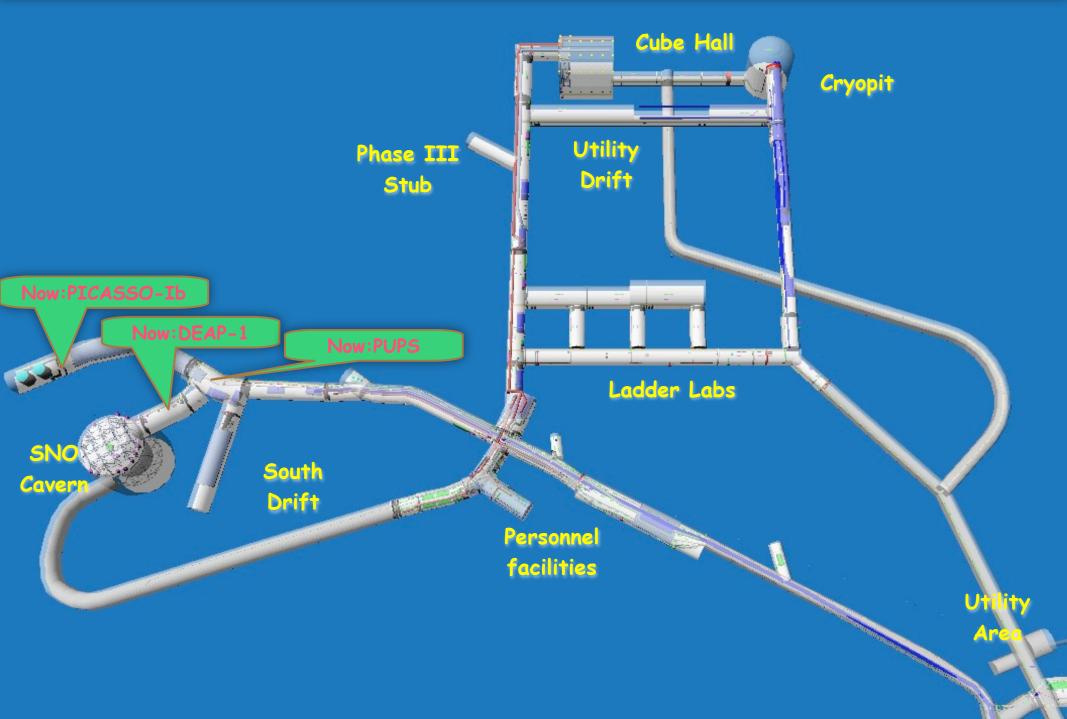
Experimental Programme



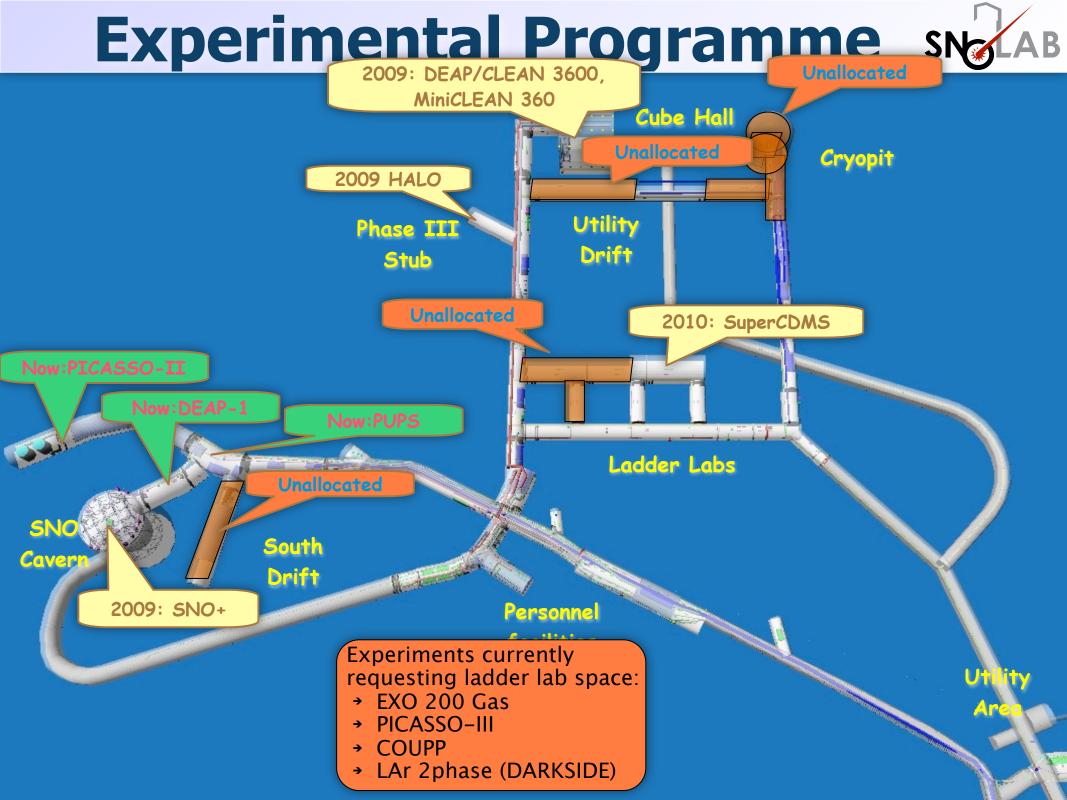


Experimental Programme





Experimental Programme
2009: DEAP/CLEAN 3600, MiniCLEAN 360 Cube Hall Cryopit 2009 HALO Utility Phase III Drift Stub 2010: SuperCDMS Ladder Labs SNO South Cavern Drift 2009: SNO+ Personnel facilities



SNOLAB science programme

- Initial detectors operating in available SNO spaces
 to be relocated as programme develops
- SNOLAB facility coming on-line
- Initial SNOLAB detector infrastructure construction is planned and underway
- Great science to be done...
 - let's hear about it!