

# **GCRF meeting**

February 15th

# Progress in work with BEGe Detector @IFUNAM

- Data has been taken with different calibration sources at varying distances, no shielding. With this data, efficiencies will be calculated (Undergrad students).
- A Montecarlo simulation exists (by. MSc. Student), it will be improved (by Undergrads) adding the Ge dead layer.
- We will put back BEGe in the lead shielding and take new data runs, aiming to analyze the low energy region to estimate the detector sensitivity to  $210\text{Pb}$ .

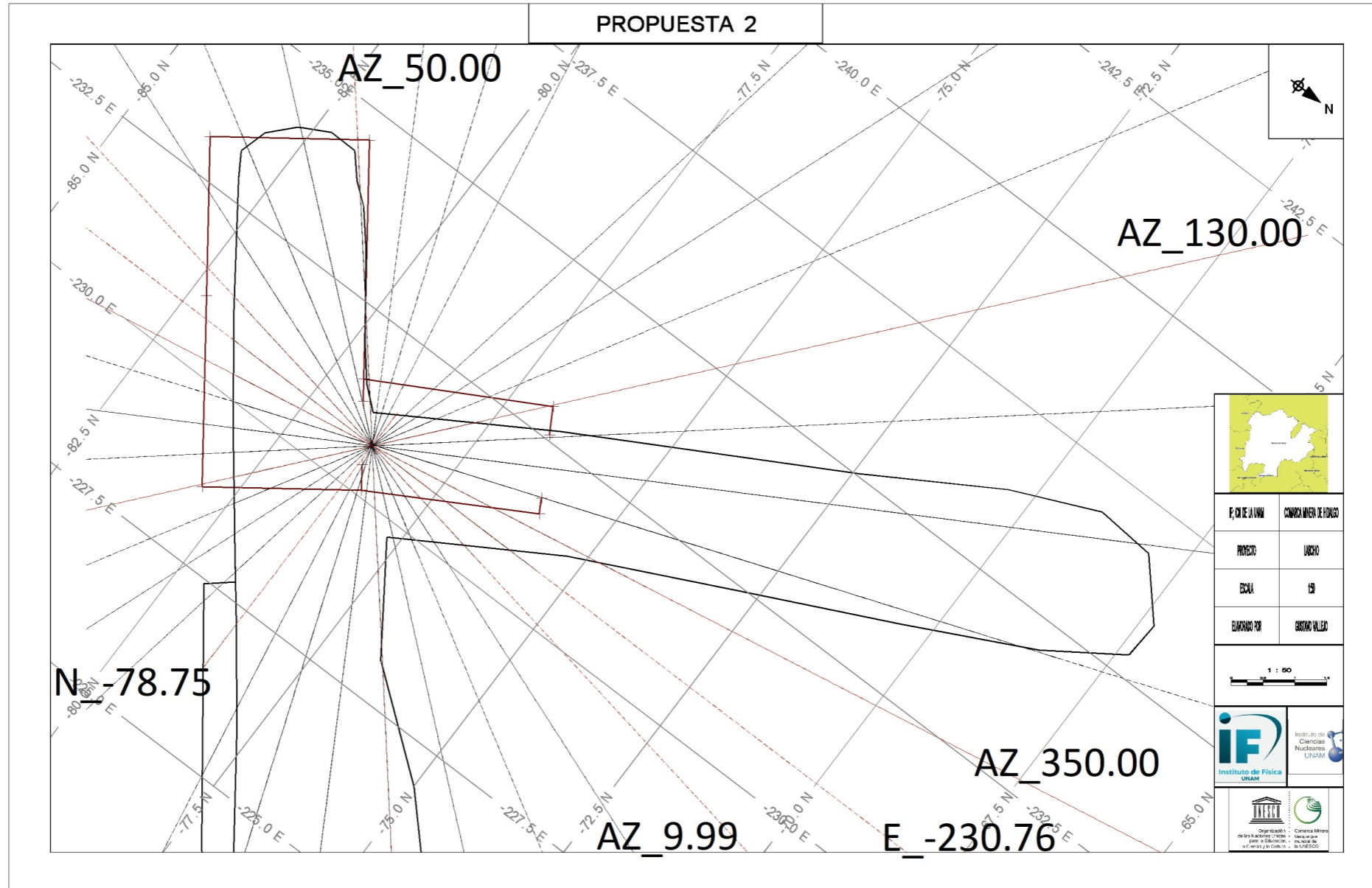
# Progress in the design of a permanent installation for LABChico@ComarcaMinera

- The most suitable site is in Mina Guadalupe, >100m overburden.
- We are planning in the near future to have a “semi-permanent” installation in a small Shed, to be assembled inside the mine.



# Visits to the site with contractors for viability and risk studies

- Mauricio Martinez and Gustavo drove people from contracting companies to the site for a first visual inspection, and we are waiting for their detailed proposal.
- Feb. the 6th: Orlando Lozada, Architect. ORMARK S.A <https://www.ormak.es/es/grupo-ormak/>
- Feb. the 7th: GIXTHO Ph D. Héctor Mora <https://gixtoh.com.mx>
- Feb. the 8th: Eng. Victor Fabian Mendoza
- Tunnel entrance is has a low roof, 1.35m, contractors say no modification to the tunnel is necessary.



**Gustavo Vallejo**

Feb. 8th 2019



# Progress in scheduled outreach activities

- **Feb. 22th.** Science outreach talks for younglings (12-17 yrs.). We have sponsorship from CCA and ICN.
- After we will meet with National Park and local authorities (El Chico Major, etc..).



**LA CIENCIA DE LABChico**

Ven a conocer la propuesta del futuro laboratorio subterráneo de Mineral del Chico.

Viernes 22 de Febrero, 2019. 10:00 a.m.  
Hotel El Paraiso, Mineral del Chico.

Programa:

- 10:00 Inauguración y palabras de las autoridades.
- 10:20 "Geoparque UNESCO Comarca Minera"  
por Erika Salgado y Miguel Cruz (CCA-UNAM).
- 10:50 "Un laboratorio para estudiar baja radioactividad y rayos cósmicos en Mineral del Chico"  
por Alexis Aguilar Arévalo (ICN-UNAM).
- 11:20 "Marie Curie: su vida y su legado científico"  
por Estela Garcés (IF-UNAM).
- 11:50 "Estudiando el Universo desde el interior de una mina a 2000 metros bajo tierra"  
por Eric Vázquez Jáuregui (IF-UNAM).
- 12:20 Cierre del evento.

Logos: COMARCA MINERA, IF, GCRF, Instituto de Ciencias Nucleares UNAM, SECRETARÍA DE LA ASISTENCIA SOCIAL UNAM, Hotel El Paraiso Mineral del Chico, LABChico Laboratorio Subterráneo de Mineral del Chico.