



UNIVERSIDAD NACIONAL
DE ASUNCIÓN
**FACULTAD DE
INGENIERÍA**

Latin American Strategy Forum for Research Infrastructure

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Contributions of the University of Asuncion to the different projects that we are involved

The **Instrumentation** laboratory of the Engineering Faculty contributes in all experiments through 3 ways:

Electronic engineering -> DUNE / CONNIE / OSCURA / DarkNESS / SBND

Physics simulations with Geant4 -> CONNIE / VIOLETA

Analysis through pattern recognition using Machine and Deep Learning -> CONNIE

CONCLUSIONS

1. There is only one institution in Paraguay (FIUNA) working mainly in instrumentation/electronic engineering and computing science.
2. Very small or no physics involvement in the experiments that the country is participating. This is because There is no physics Institute from where student and professionals can participate.
3. Small support **promised** by the Funding agency, almost no help up to now (and things getting worse in that sense, since they stated last week that won't finance project that are not declared as National Priority). -> **President of the Funding agency changed and the new one pushing for this agenda**

Slide presented in the 1-05-2019 meeting

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3. The faculty is making an effort to support the laboratory. We signed the ICRADA with Fermilab to continue working together in the different projects involved
4. Starting to work in space weather through the data of muons (already working), magnetometers (to be install with the help of INPE), and VLF/Horn antennas (to be installed)