

meeting update

WP4 - Integration report

8 Feb 2024

- LIME:
 - gas system maintenance and operation (recovery bottles, gas quality monitoring)
- GIN:
 - Lomba cathode/FC with PCB test finished, analysis ongoing
- MANGO:
 - mechanical setup in progress

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- CYGNO04
 - tender for site preparation: **still waiting** for INFN feedback about the agreement with the GSSI
 - design and test on GEM/cathode/FC solution and frames (nylon6, resistors, radio-pure PMMA, Ti screws, etc) ongoing. It's fundamental **have a feedback on PCB radio purity** in order to proceed for more accurate full scale prototyping; in general, stil missing some **companies and costs information**;
 - after the preliminary design and review done, the **costs of the Cu/H2O shielding** has been reduced by the idea of melting the LIME/OPERA Cu and use prefabricated water tanks for nuclear plants. **quantitative study is ongoing**; missing **information from SIM** about radio pure thickness of Cu and the possibility to use borated water
 - a carefully study must be done on the **source** to understand number of it, materials for mechanics and movements
 - a big **issue with the camera distance**: the today camera foreseen for CYGNO04 could not fit inside the detector, because of the today foreseen **space available** end any change of the affect the shielding of control too etc, already done: we have to carefully evaluate the best optics/camera ratio. **we are incompatible with the space available.**

CYGNO 0.4 - NEUTRON SHIELDING

INGOMBRI AGGIORNATI – DISTANZA TELECAMERA

