

NEWS

CYGNO MEETING - 28/04/22

CYGNO at LNGS

We've been invited to present a report to Gran Sasso SC

Elisabetta is going to report about the current commissioning activities for LIME and the plans for CYGNO_04:

- availability of Hall-F
- solution to fit there
- costs and sustainability of the project

Agenda LVII meeting of the Gran Sasso Scientific Committee

Fermi and Majorana halls

April 11 - 12, 2022

11:20 - 19:00 **CLOSED SESSION – MAJORANA HALL**

11:20 – 12:00 Committee discussion (40')

12:00 - 12:30 CYGNO (15' + 15')

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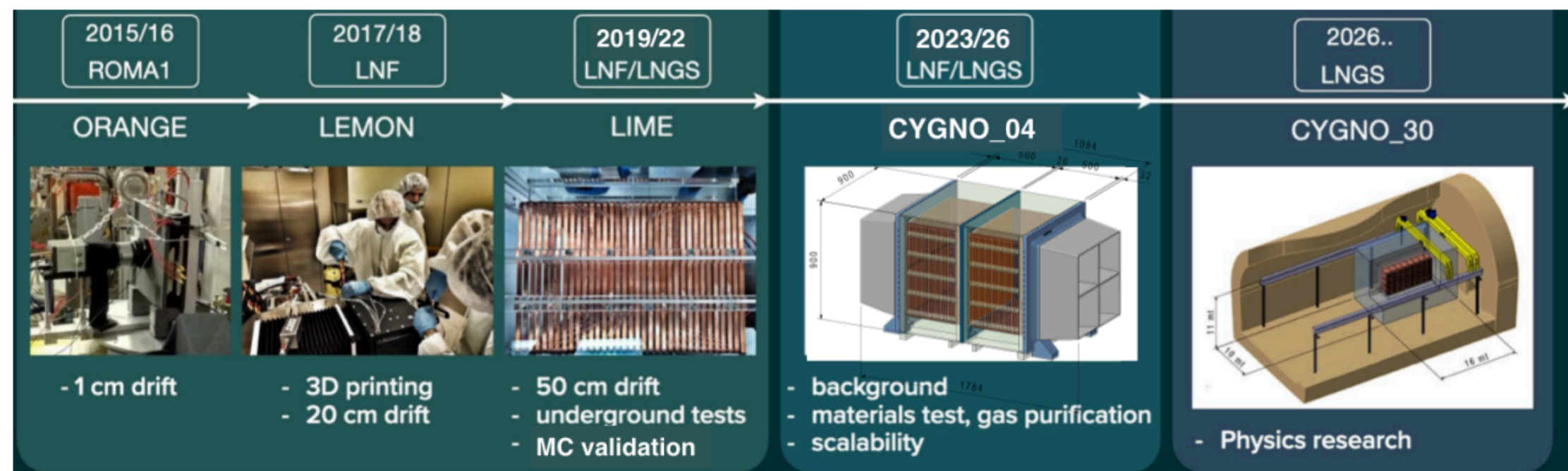
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CYGNO PHASE 0 LIME detector recently installed at underground LNGS

CYGNO PHASE 1 demonstrator under optimisation & studies for the realisation of a 0.4 m³ active volume detector to be hosted in Hall F

- TDR in preparation
- Detector core cost fully covered by INITIUM ERC fundings
- Plentiful personnel time commitment for PHASE 1 realisation



Including ERC & PRIN project, a total of 20.45 FTE

4 Italian institutions

5 foreigner institutions from 3 countries

Collaboration continues to expand (2 new members from Campinas for 0.5 FTE)



- LIME operation start-up delay underlined

LIME at LNGS

Still flushing nitrogen while waiting for the exhaust-gas recovery system;

GEM and Cathode HV successfully set to operational values:

- VGEM = 440 V;
- Transfer Fields = 2.5 kV/cm;
- Drift Field = 900 V/cm.

Optical focus optimised, while lens centring to be tuned;