

# CYGNO Collaboration Meeting 2024

Wednesday, 27 November 2024 - Friday, 29 November 2024

Palazzo Pubblico



## Book of Abstracts



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## **Conclusion and discussion on future plans**

**WP4 - Design and Construction / 2**

### **Update from LNF (GIN and GEMs)**

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**WP1 / 3**

### **LIME status**

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**WP1 / 4**

### **Early LIME DM limit**

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**WP1 / 5**

### **Neutrino physics case**

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**WP1 / 6**

### **Negative Ion Drift update**

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**WP2 - Analysis / 7**

### **Status of Analysis**

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**WP2 - Analysis / 8**

## **Cloud operation status**

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**WP2 - Analysis / 9**

## **Status of Reco**

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**WP2 - Analysis / 10**

## **Run3 and Run4 data analysis**

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**WP2 - Analysis / 11**

## **3D reconstruction**

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**WP2 - Analysis / 12**

## **AmBe results**

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**WP2 - Analysis / 13**

## **Run4 Lowgain analysis**

**WP2 - Analysis / 14**

## **Saturation measurements and theory**

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**WP2 - Analysis / 15**

## **Machine learning for pixel selection**

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**WP2 - Analysis / 16**

## **Image signal selection for trigger**

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**Welcome session / 17**

## **Welcome address**

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## **Institutional greetings**

**WP3 - Simulation / 19**

## **CYGNO-04 Monte Carlo**

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**WP3 - Simulation / 20**

## **CYGNO-04 background**

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**WP3 - Simulation / 21**

## **Detector simulation and digitization**

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**WP3 - Simulation / 22**

## **PMT simulation**

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**WP6 - R&D and radioactivity measurements / 23**

## **Results from Field Cage Foils measurements**

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**WP4 - Design and Construction / 24**

## **Status of Computing**

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**WP4 - Design and Construction / 25**

## **Status of CYGNO04 drawings**

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**WP7 - Management / 26**

## **Report on financial status**

**WP7 - Management / 27**

## **Report from PubComm**

**WP5 - Auxiliary systems, DAQ and calibration / 28**

## **Calibration system for Cygno\_04**

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## **Trigger and data acquisition system for Cygno\_04**

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## **Software trigger for Cygno\_04**

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## **Gas system for Cygno\_04**

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**WP1 / 32**

## **Brief review of latest results in direct DM searches**

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**WP2 - Analysis / 33**

## **First look in Run5**

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**WP6 - R&D and radioactivity measurements / 34**

## **Copper Cleaning Procedures**

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