

Plans for WP6

WP6 organization

R&D WP6	
Davide Pinci	
Task	Coordinator
ECO-GAS studies	D. Piccolo
Negative Ions	E. Baracchini
Gas Mixtures	F. Amaro
Field Cage	G. Mazzitelli
Gas Luminescence	D. Pinci
Alternative MPGD	E. Baracchini

- WP6 Research and Development , Dr. Davide Pinci INFN-ROMA1. The WP is in charge of the development ongoing for PHASE 1 (chapter 3) and the study needed to enhance the performance for PHASE 2 (chapter 4)
 - validating large GEM (M6.1)
 - validating low radioactivity field cage component (D6.1)
 - validating large sensors and low radioactivity lens (D6.2)
 - validating R&D for PHASE 2 (D6.3)

WBS ID	TASK	DESIGN and PROCUREMENT (2023)			CONSTRUCTION, TEST & ISTALLATION (2024)			COMMISSIONING – DATA TAKING (2025-2026)						DECOMMISSIONING (2027)		
		1-4	5-8	9-12	1-4	5-8	9-12	1-4	5-8	9-12	1-4	5-8	9-12	1-4	5-8	9-12
WP6 Research and Development																
6.1	validating large GEM			M6.1												
6.2	validating sensors and lens						D6.2									
6.3	validating field cage component				D6.1											
6.4	validating R&D for PHASE 2														D6.3	
6.5	validating radioativity detctors components						M6.2									
6.6	validating handling of detctors components						D6.4									

WP6 status

- So far this WP worked in a “scattered” mode, without periodic meetings;
- I'll circulate a doodle to have dedicated meetings a properly follow the development of the different tasks;
- A summary of the current status:

Validating large GEM: Luigi is working on this. Plan to the test with HV in the next days

Validating optical sensors: we studied in details two sensors, we are now evaluating possible options to propose for the CYGNO-04 layout;

Validating field cage components:

- GIN was tested with the proposed final FC and cathode. Analysis needed;
- FC radioactivity was measured by Matthias. Waiting for results;

Validating radioactivity of detector components: as soon as new components are proposed, they will be tested if measurements are not available from other groups;

Validation of procedures, will start as soon as procedure will be setup.