

CYGNO, 09/05/24

# Resignation of Giovanni as TM

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As you know, Giovanni has resigned from his role as Technical Coordinator, GLIMOS, RAE and computing contact person for the experiment;

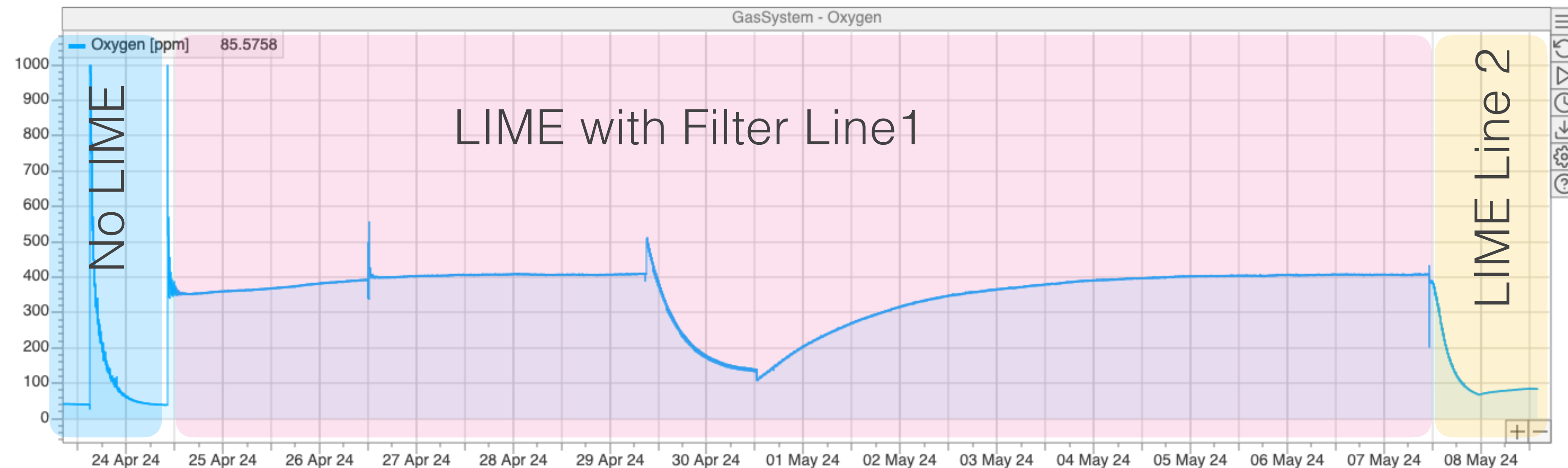
I am sorry it has come to this decision;

We are now investigating who can be a possible new Technical Coordinator and how they can improve the effectiveness of decision taking procedures and a better communication and collaboration between the different Working Groups;

Elisabetta already taken ad interim the roles of GLIMOS, RAE and computing c. p.;

# LIME (Pre-) RUN5

- Water shielding around LIME was removed on the 22-24 April;
- Other upgrades on gas system:
  - Oxygen probe is now working;
  - Atmospheric pressure reading directly performed by the system (no more need of an external software);



# LIME (Pre-) RUN5

- Plans for this pre-RUN are:
  - Test the effectiveness of the “radon” filter after a 48h regeneration against alphas;
  - Test the effectiveness of the Oxygen filter after a 48h regeneration against oxygen;





# LIME RUN5

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- Plans for this RUN it to study the neutron flux in the Tunnel:
  - Some preliminary studies performed by Flaminia indicated a possible rate of neutron interactions in LIME gas of about 50 events/months above 20 keV
  - A more precise evaluation of experimental effects (angular and energy resolution, detection efficiency) is needed to asses the real achievable results;
  - according to the results of tests performed in RUN4, LIME working condition will be different from previous RUNs, in order to moderate the energy response non-linearity;

# Meeting with INFN referees and next steps

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- On the **24<sup>th</sup> of April** we meet the **INFN-referees** to discuss the results of LIME data analysis and simulation: <https://agenda.infn.it/event/41315/>
- This meeting was intended to set a point about the status of the analysis and in particular of the MC simulation;
- The results were received very positively. Although the MC still shows differences from the data, the referees pointed out the great improvement from the early studies and the obvious positive effort of the collaboration in this direction.
- At this point we are also encouraged to proceed with the more detailed analysis of the collected data
- Giorgio is collecting proposals on possible studies ([https://docs.google.com/spreadsheets/d/1-JIsF86o7vRVyHFi\\_Dv\\_O2VqHT\\_LWyoYJykugbfUaVM/edit#gid=0](https://docs.google.com/spreadsheets/d/1-JIsF86o7vRVyHFi_Dv_O2VqHT_LWyoYJykugbfUaVM/edit#gid=0)).
- If you have ideas or would like to participate, please get in touch with him

# Next meeting with INFN referees

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- Our financial plan was approved by INFN for 2023 and 2024;
- The funding of 2025-2027 should be rediscussed after all the work on LIME and the updated version of the TDR (that was already presented);
- For this reason a new meeting will be organised in June/July in order to have this item discussed by the INFN committee in the July meeting