



**High
Luminosity
LHC**

BGC regular meeting - Version 3 update

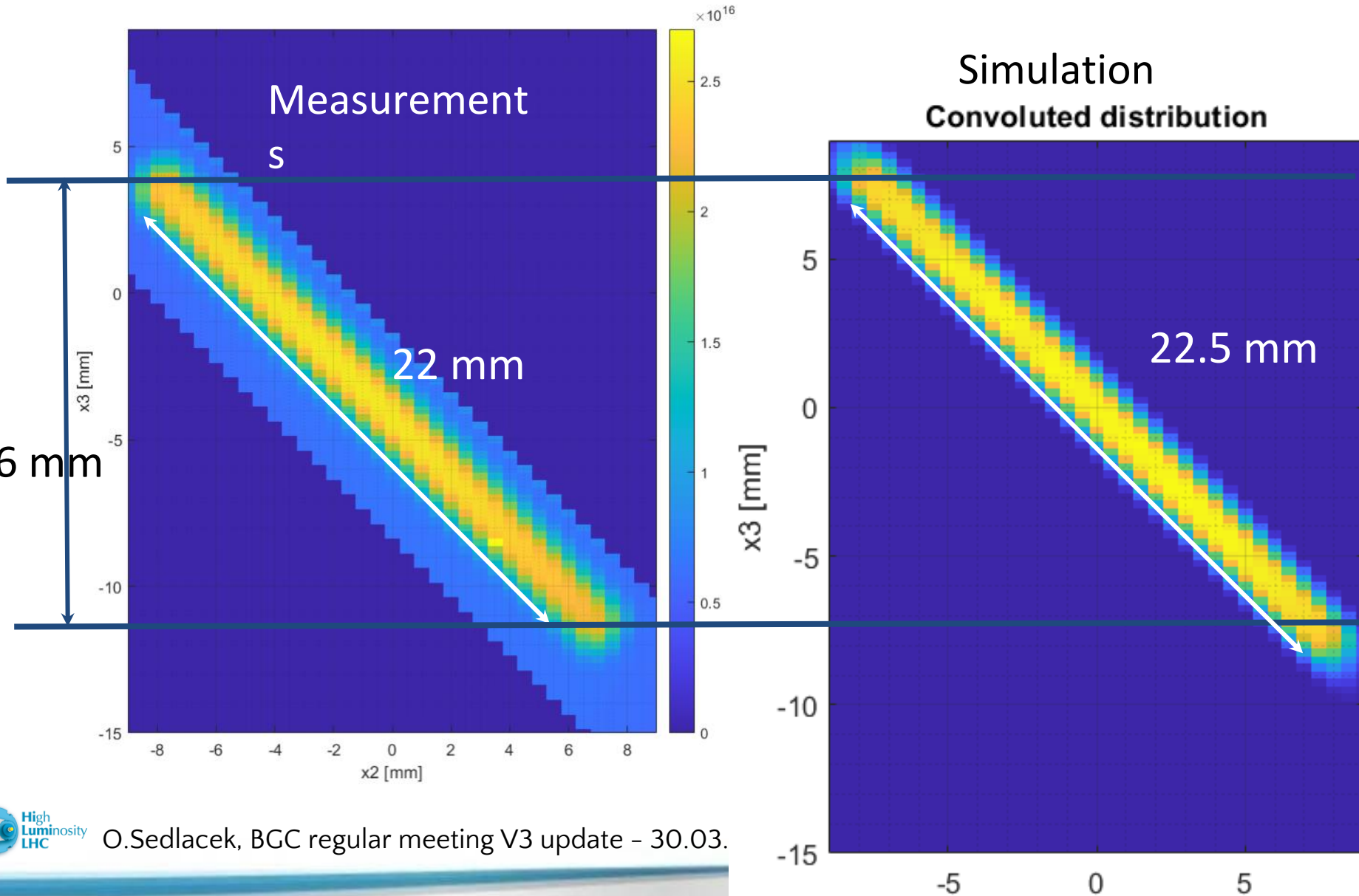
O. Sedlacek, H. Zhang, O. Stringer, S. Mazzone
08.04.2022



The HiLumi LHC Design Study is included in the High Luminosity LHC project and is partly funded by the European Commission within the Framework Programme 7 Capacities Specific Programme, Grant Agreement 284404.

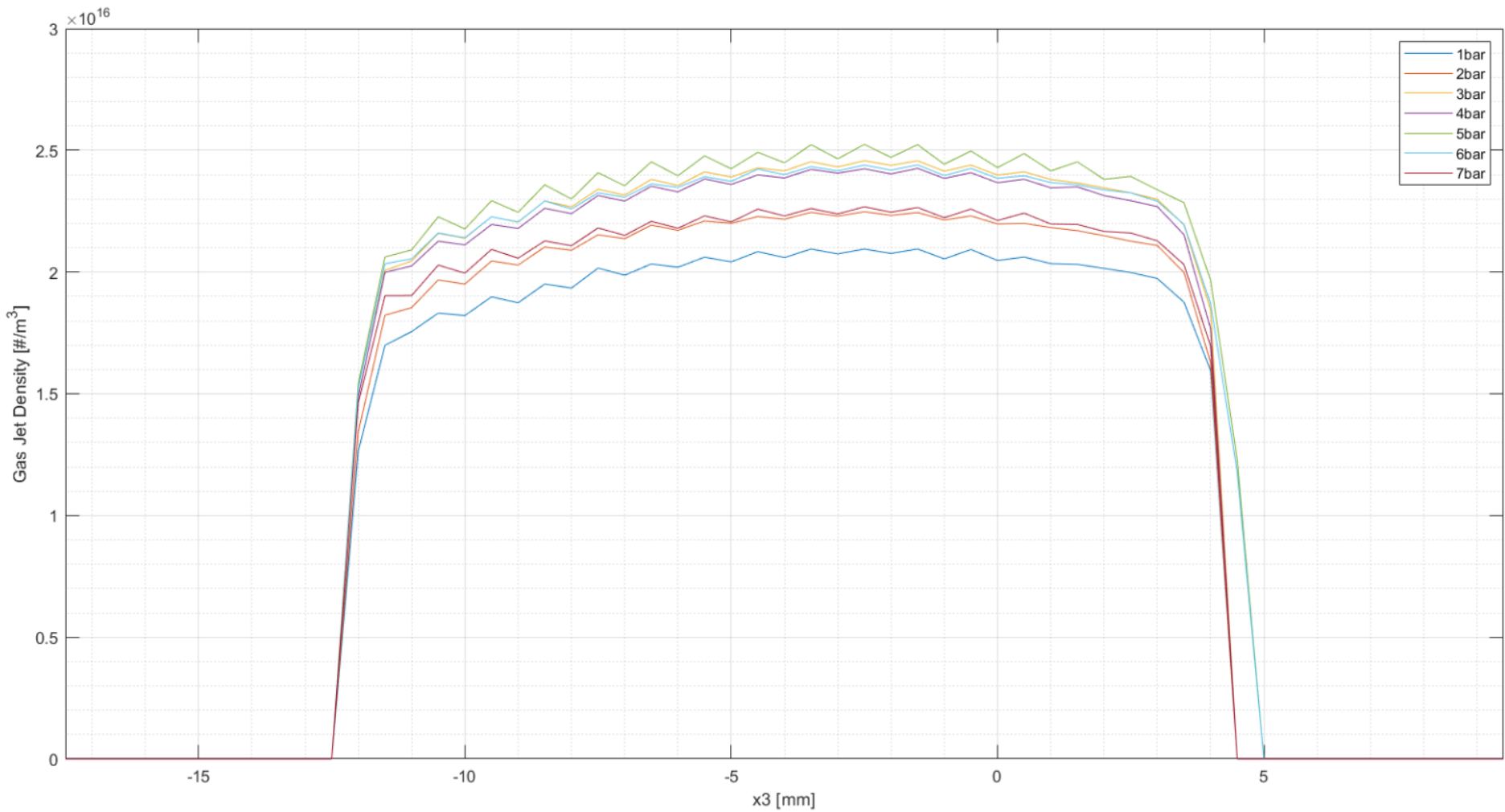


Gas Jet profile at CERN

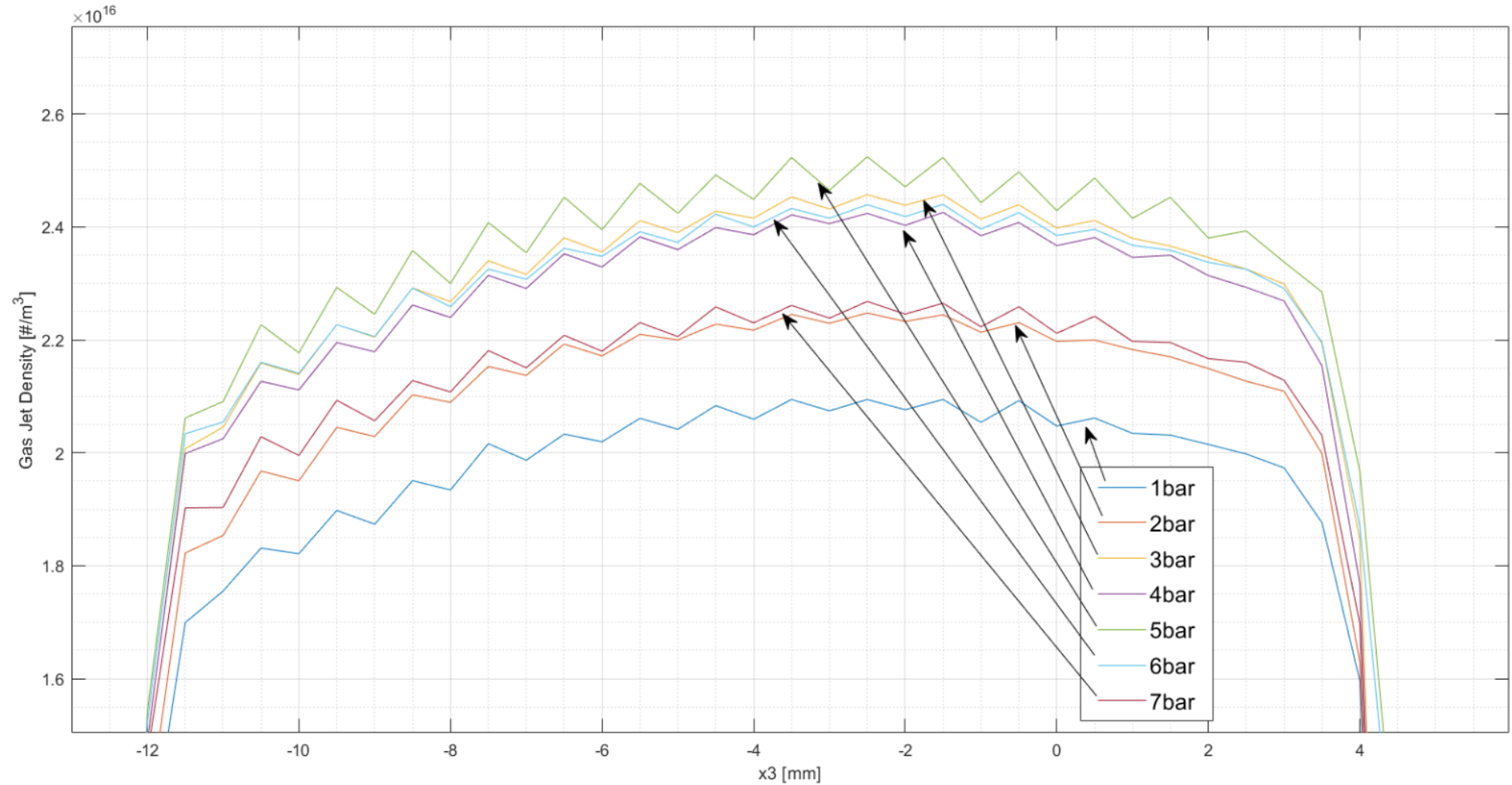




Gas Jet at CERN

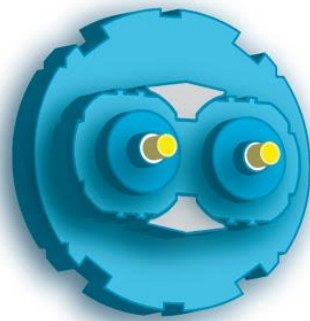


Gas Jet at CERN



Next steps

- ⦿ Further gas jet + e-beam measurements
 - Signal still not found
 - E-gun
 - Camera (noise)
 - Higher demagnification -> hard to find
- ⦿ Vacuum tests
- ⦿ Stability gas jet tests for BGV



High Luminosity LHC

Thank you for your attention

Any questions?

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Science and Technology Facilities Council

LIV.

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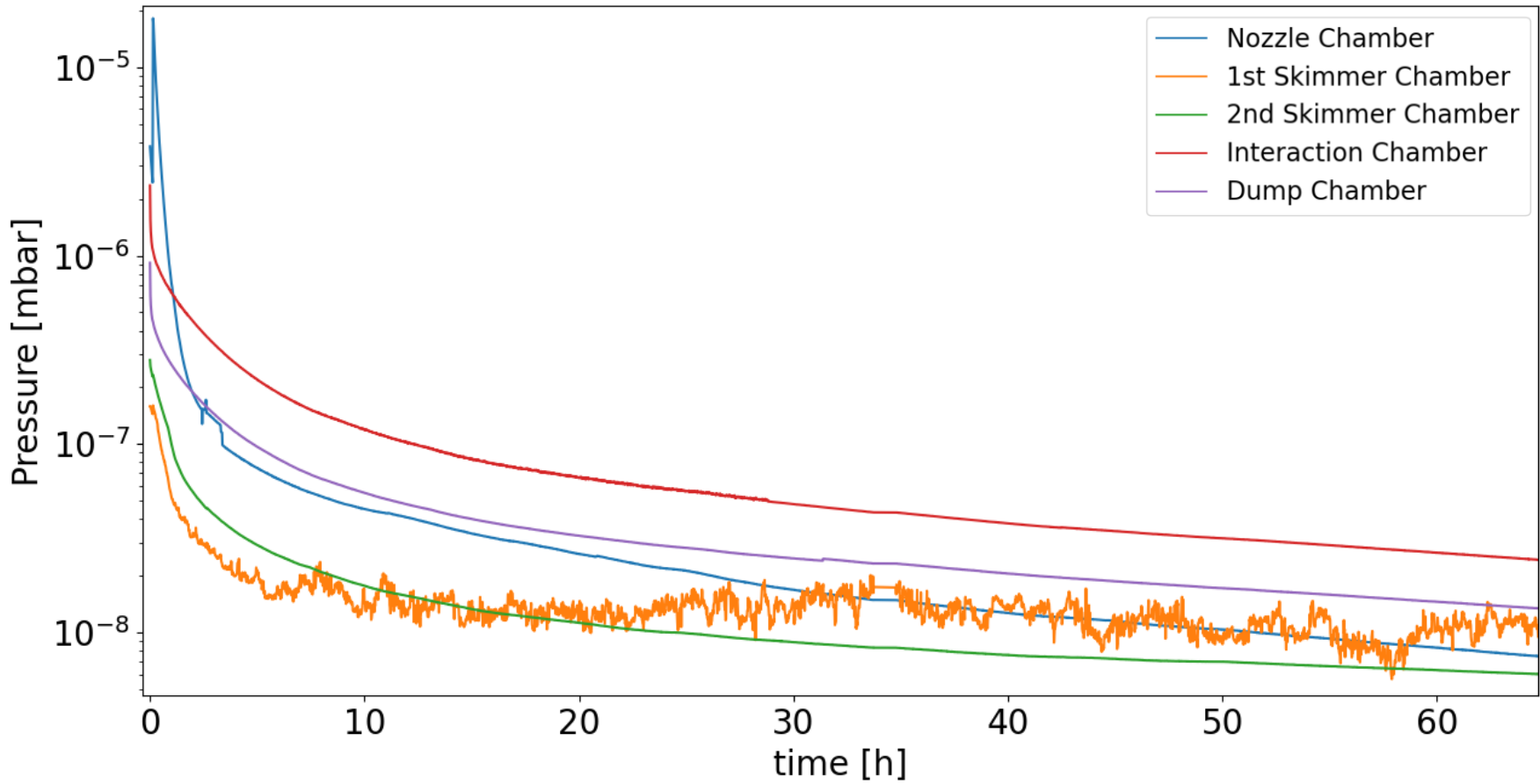
The Cockcroft Institute of Accelerator Science and Technology



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Pressures during pump down



Pressures with Gas jet

