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Future  
Artificial  
Intelligence  
Research

# Second ePIC AI Town Hall

December 11, 2024

## Real-Time data reduction with Artificial Intelligence for SRO.

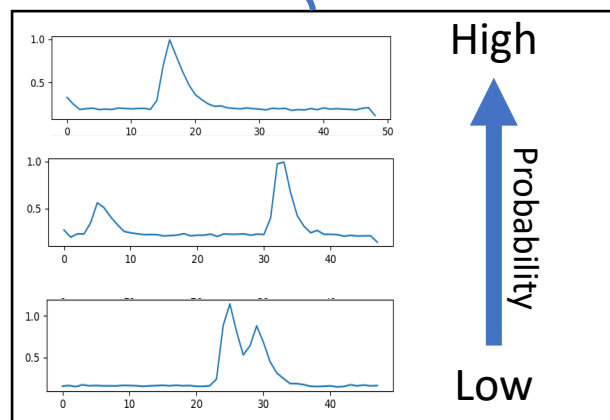
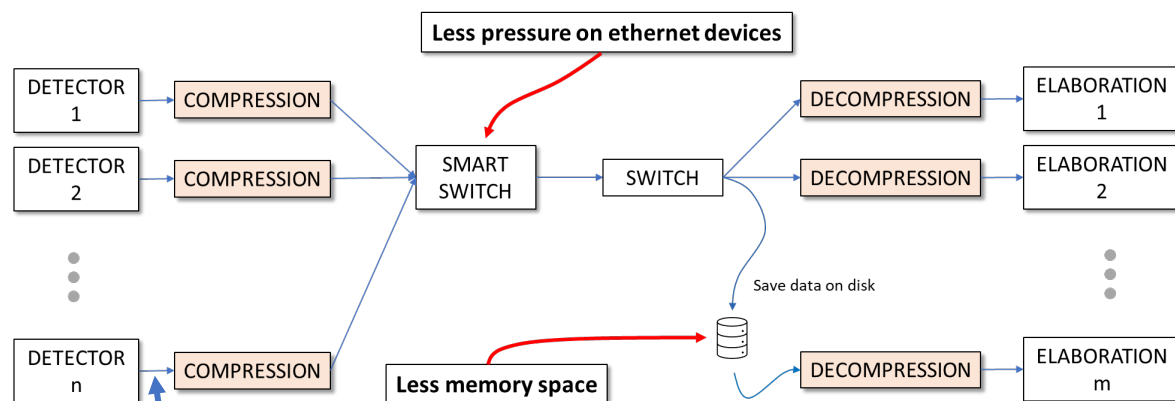
**Fabio Rossi** (presenter), **Marco Battaglieri**  
Istituto Nazionale di Fisica Nucleare  
Genova (Italy)

**Edoardo Ragusa, Paolo Gastaldo**  
SEALab Università di Genova (DITEN)  
Genova (Italy)

**Gagik Gavalian**  
Jefferson Lab  
Newport News (Virginia)

## Scope and Goals

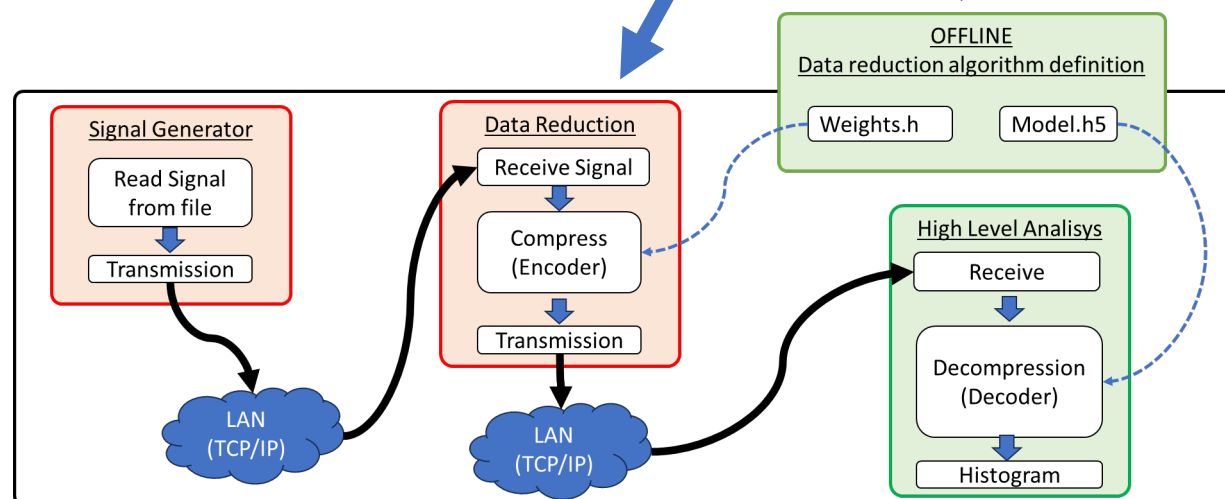
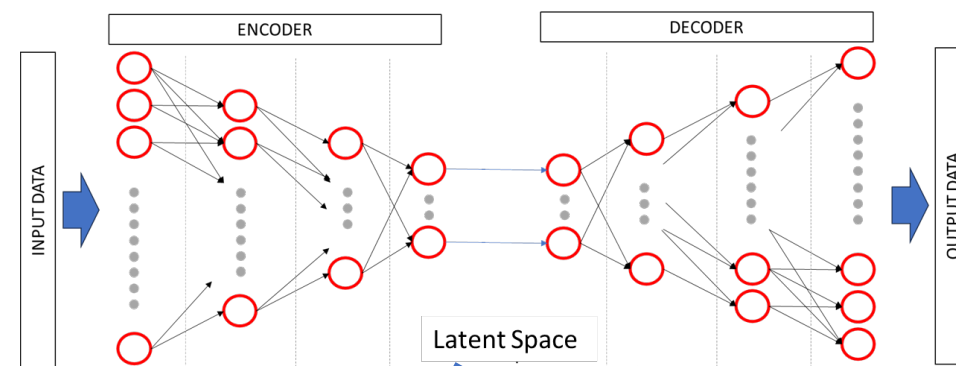
### Scheme of SRO Acquisition



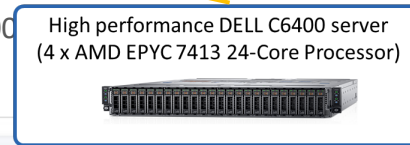
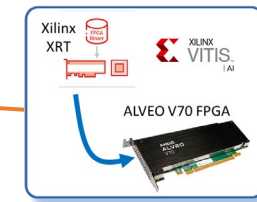
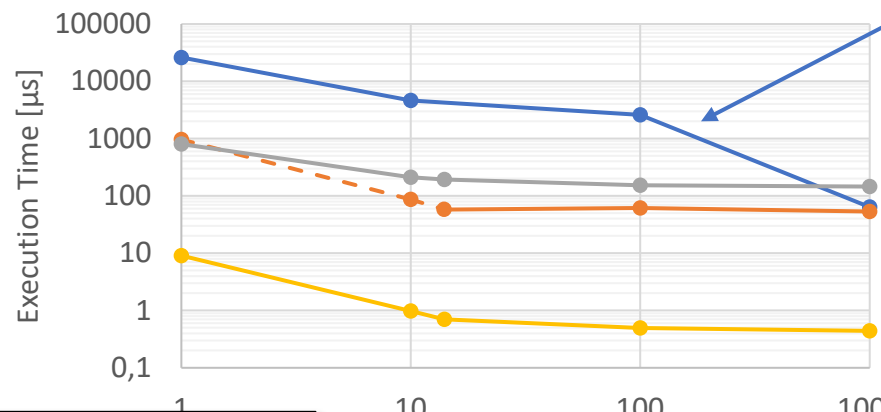
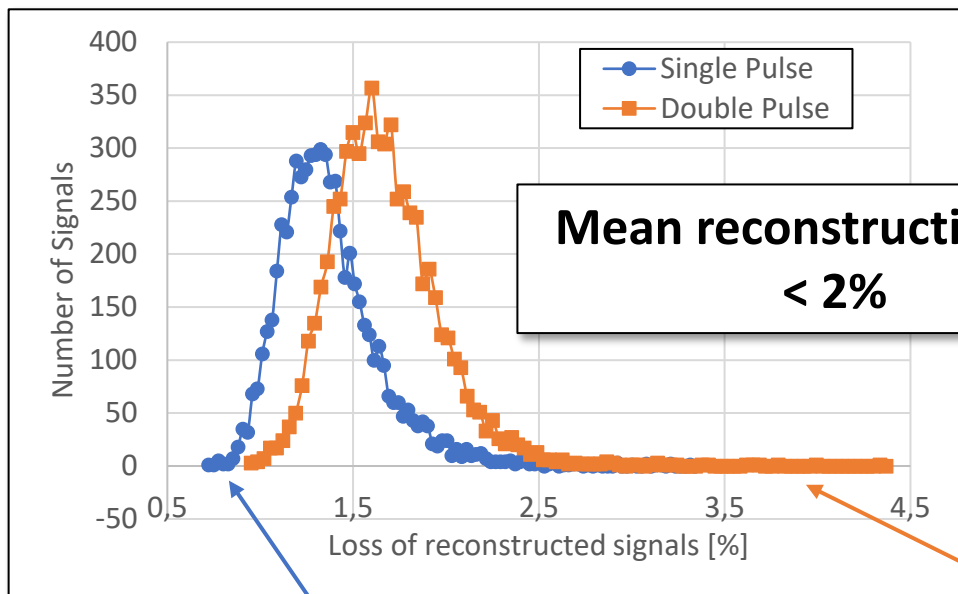
**Goals**

**Compression ratio: 4**

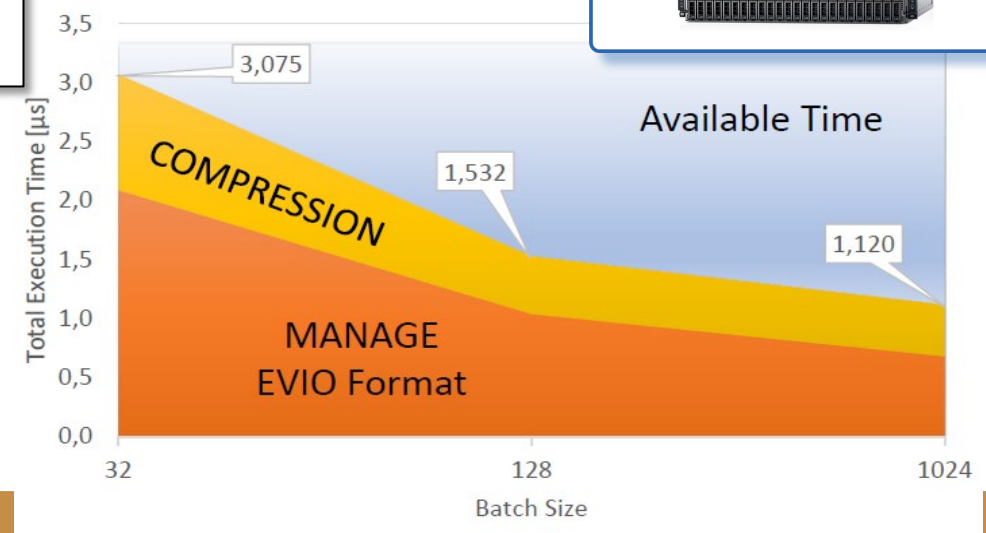
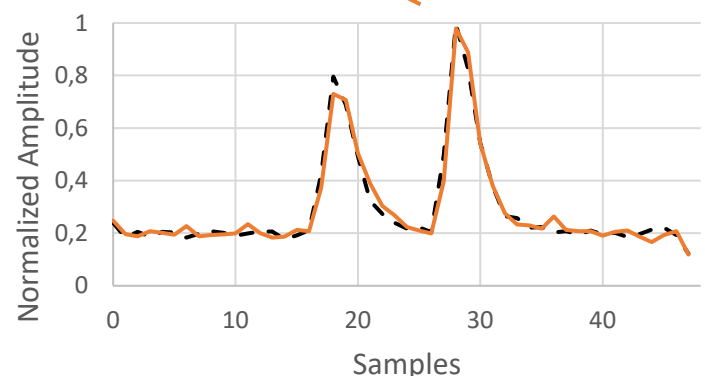
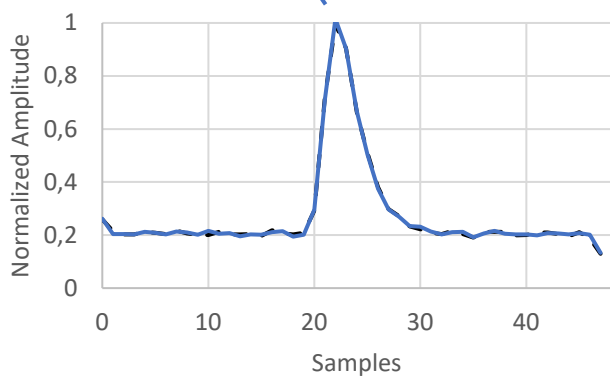
**Data rate: 300kHz**



## Current Status



**Execution time < 3us**

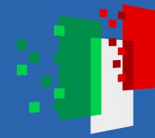




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Thank you for your attention



FUTURE AI RESEARCH

<https://fondazione-fair.it>



<https://www.jlab.org>



<https://www.ge.infn.it>



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#### ACKNOWLEDGMENT

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