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LHCb
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Welcome and general info

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Workshop on High Throughput Heterogeneous Computing

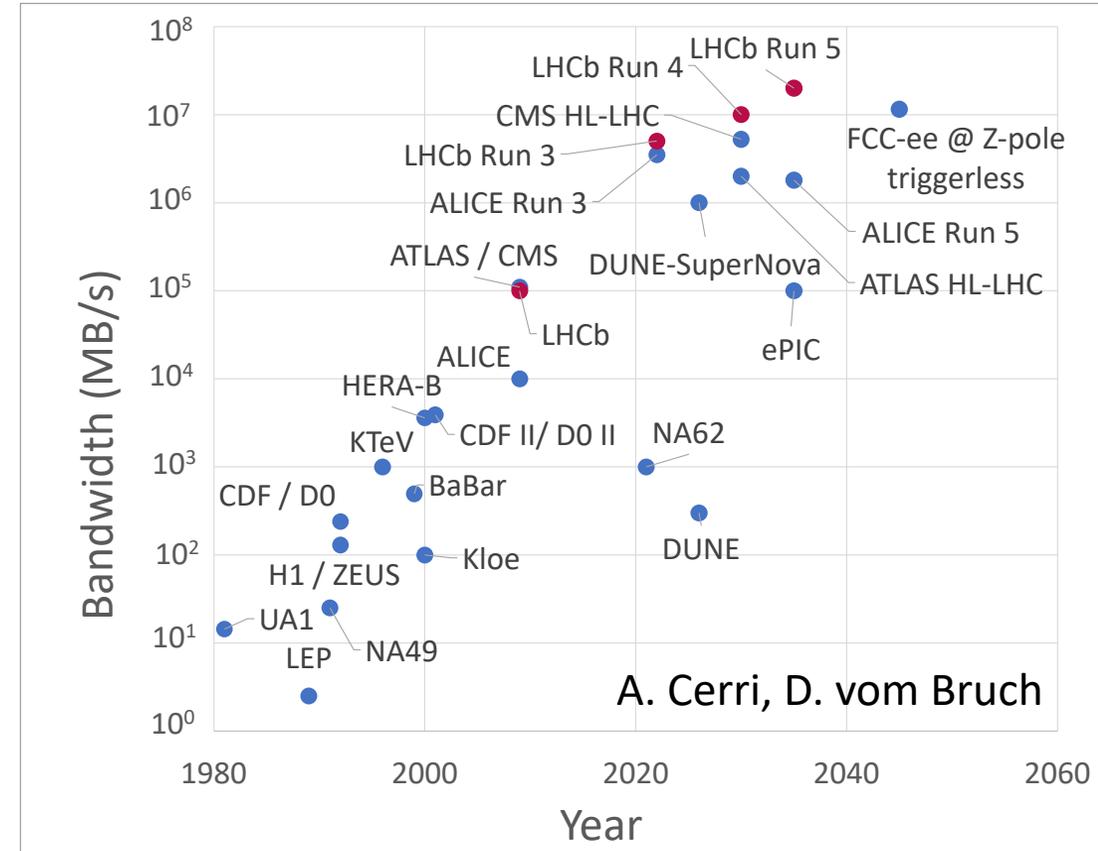
28 Jan 2026 — Andy.m@cern.ch

Welcome!

- Workshop on High Throughput Heterogeneous Computing
- Brought to us by the [GDR – Intensity Frontier – Future Experiments](#)
- Special thanks to:
 - [Giulio Dujany](#) – helping organising the money
 - [Christina Agapopoulou](#) – helping with local organisation
- Discussions will be held here: [100/0-MXX](#) - Salle des Conseils

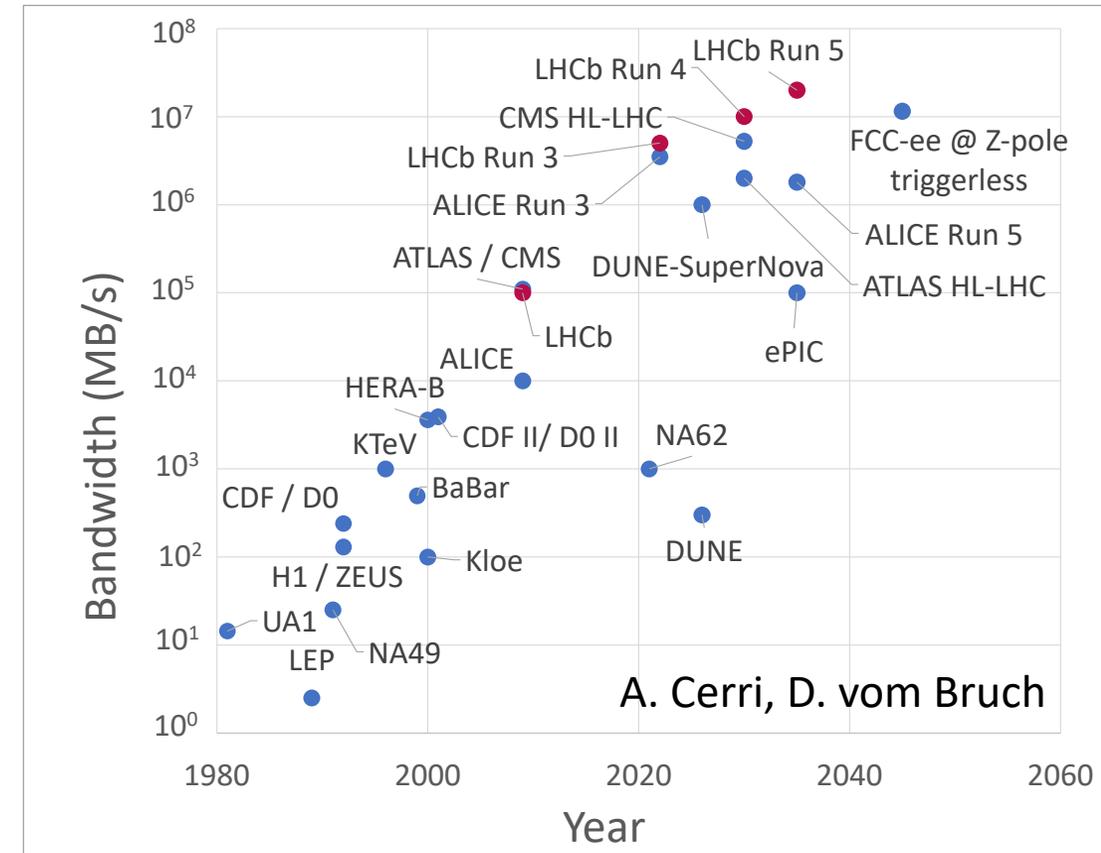
The goals of this workshop

- What are our goals for our future DAQ?
 - LHC Run 4, Run 5 (HL-LHC) and ePIC
- Readout bandwidth is increasing exponentially
- This is a common problem which can allow common solutions
 - Common tools
 - Common framework components
 - Interoperability



The goals of this workshop

- So let's discuss:
 - The work we're doing to achieve a high throughput for our DAQ and frameworks
 - What common solutions can we find to our problems?
 - E.g. if we want to use each other's work, how can we make it interoperable?
- Let's also write down any plans we agree on to achieve these goals
 - Will help us help each other



Who's here

- Representatives from:

- LHCb, ACTS/Atlas, ePIC, computer scientists from IJC lab
- CMS was invited but unavailable



The timetable

- Split into sections
 - This afternoon: [LHCb's frameworks](#)
 - Tomorrow morning: [ACTS and the ODD](#)
 - Tomorrow afternoon: [ePIC; research into metaprogramming](#)
 - Friday morning: [Calorimeter clustering techniques and roundtable](#)