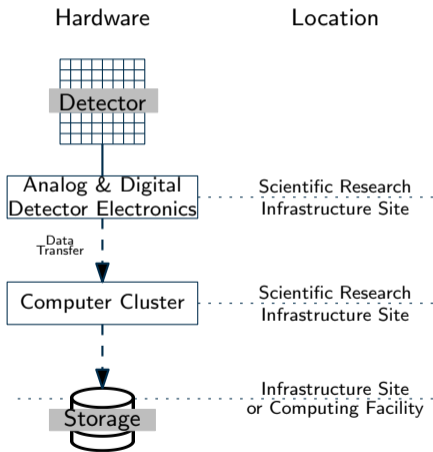


Towards Virtualized 100+ Gbps Data Acquisition Software Systems

J. Mostafa, N. Tan Jerome, S. Chilingaryan, A. Kopmann, J. Becker

- Modern DAQ Systems are Hybrid: Hardware & Software
- Software Readout in **Dedicated** Computer Cluster Close to Experiment
- Example: HLT Triggers, Data Concentration Software, etc.
- **The Operability Challenge:** Increased Efforts to Operate Computing Infrastructure



Towards Virtualized 100+ Gbps Data Acquisition Software Systems

- Campus Computing Facilities are Available in Most Institutes!
- **New DAQ Paradigm: Data Acquisition Functions Virtualization (DFV)**
 - Virtualize Software-based DAQ Functions on Campus Computing Facilities
 - Minimize the Operability Challenge
- **Advantages:**
 - Shared Reusable Computing Resources
 - High Resource Utilization
 - Offloading Maintenance to Campus Computing Facilities
 - High Scalability
 - Automated High Availability
- **Come See Our Poster to See How We Realize DFV!**

