

# GPU resources at the SDCC

- The Institutional Cluster (IC gen1) was a large cluster (216 nodes) configured to serve the computational needs of all BNL programs who contributed to its operational support
  - Its size made it possible for SDCC to grant discretionary allocations since resources were not 100% allocated to committed stakeholders
  - After 6+ years, IC gen1 was retired from service on October 2, 2023
  - All data on its GPFS storage has been saved and is available for retrieval on request
- Unlike its predecessor, IC gen2 is heterogeneous (cpu and cpu+gpu) and much smaller in size (39 cpu-only + 12 cpu+gpu)
  - IC gen2 is considered a dedicated (not institutional) resource to committed stakeholders (CFN, CSI and LQCD)
  - The availability of discretionary allocations is significantly restricted—but (probably) not impossible (must negotiate with CSI)
- Alternative scenario
  - Consider acquiring own (small) dedicated gpu's—USATLAS has done just that
  - Others should consider it too. Here are two positive developments:
    - Costs are dropping
    - Supply chain delays are improving (a bit)