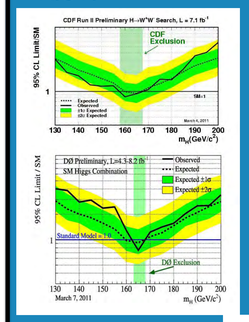
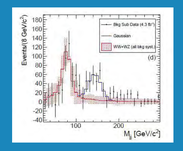
FermiGrid

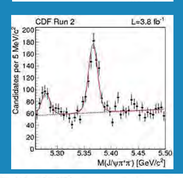
Supporting local and remote users sharing resources across Fermilab and the Open Science Grid

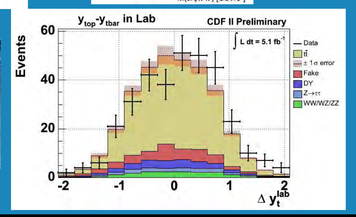
CDF Science Results

- Use FermiGrid, Open Science Grid, INFN and KISTI



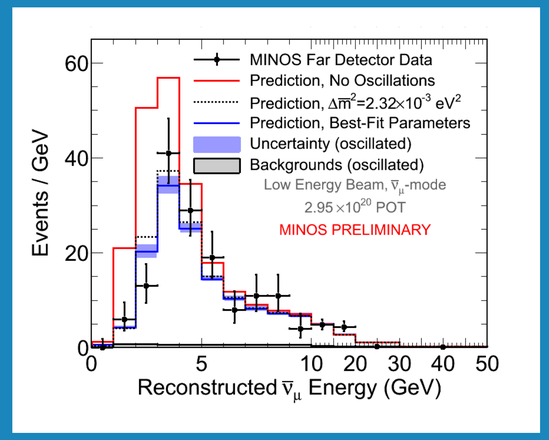






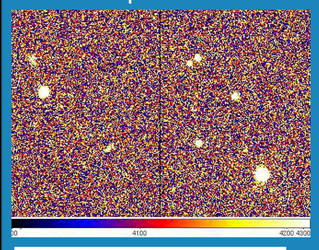
Intensity Frontier Science Results

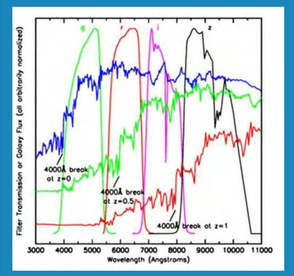
- All experiments use Grid computing

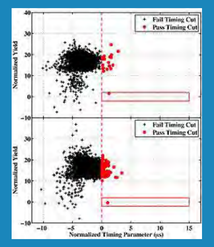


Cosmic Frontier Science Results

- All Experiments use Grid computing

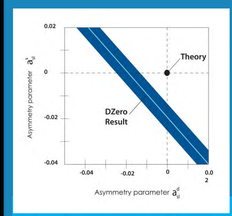


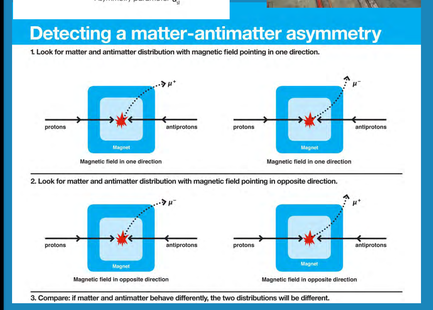




D0 Science Results

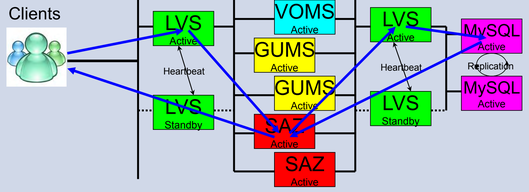
- Use FermiGrid, Open Science Grid, EGI for monte-carlo simulation and reconstruction





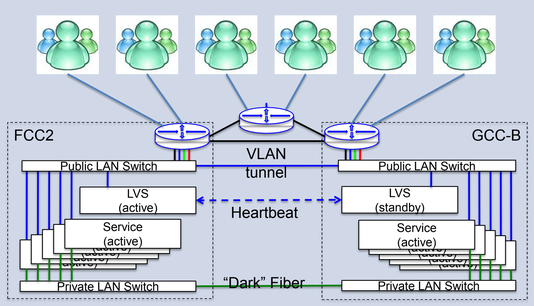
FermiGrid-HA Services

Service Redundancy

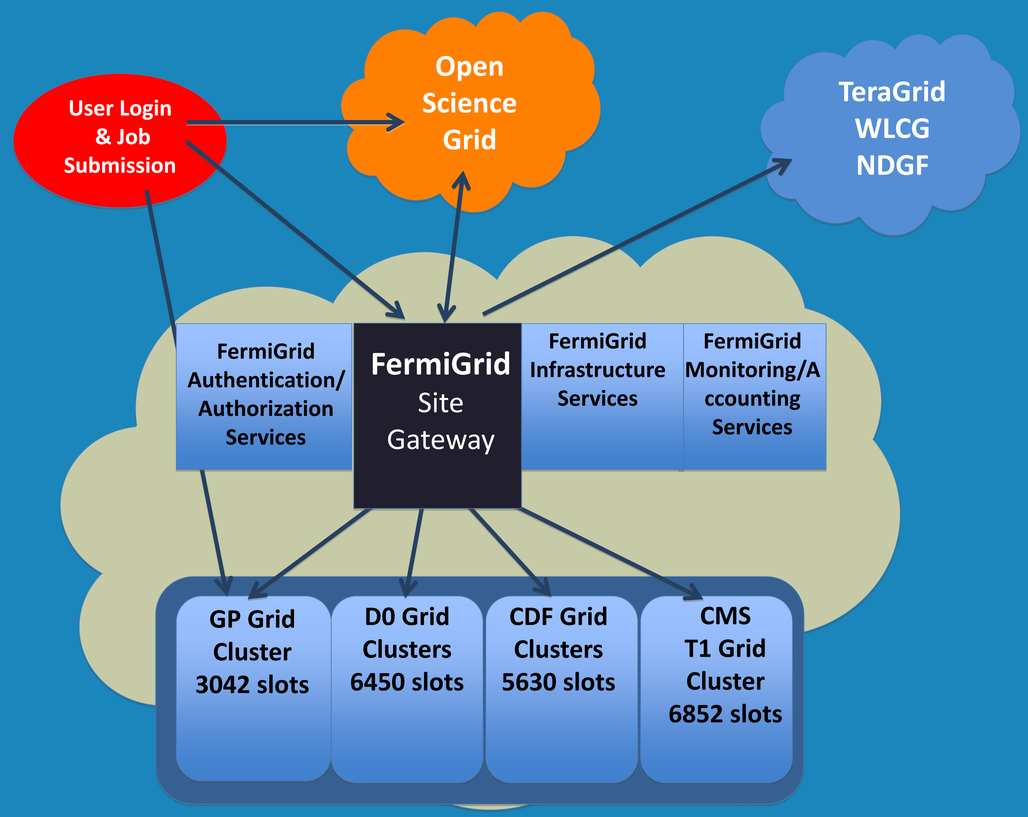


Service	Raw Availability	HA Configuration	Measured HA Availability	Minutes of Downtime
VOMS – VO Management Service	99. 657%	Active-Active	100.000%	0
GUMS – Grid User Mapping Service	99.652%	Active-Active	100.000%	0
SAZ – Site AuthoriZation Service	99.657%	Active-Active	100.000%	0
Squid – Web Cache	99.640%	Active-Active	100.000%	0
MyProxy – Grid Proxy Server	99.954%	Active-Standby	99.954%	240
ReSS – Resource Selection Service	99.635%	Active-Active	100.000%	0
Gratia – Fermilab and OSH Accounting	99.365%	Active-Standby	99.997%	120
Database	99.765%	Active-Active	99.988%	60

Geographic Redundancy

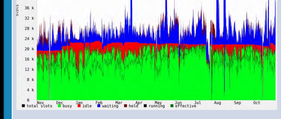


FermiGrid Architecture

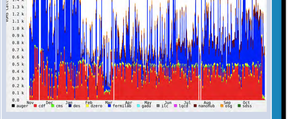


FermiGrid Performance

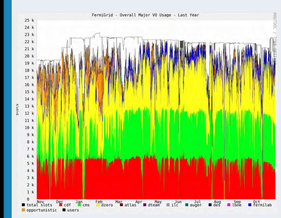
Overall Utilization



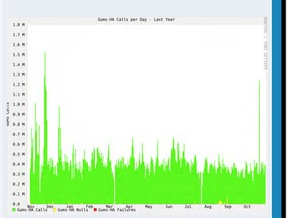
VOMS Proxy Inits per Day



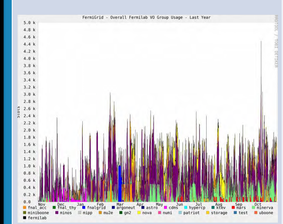
Major VO Utilization



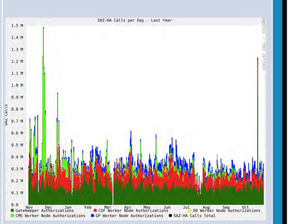
GUMS Mapping Calls



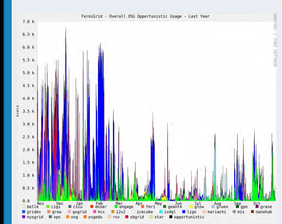
Fermilab Group Utilization



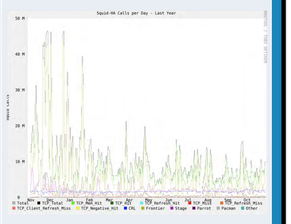
SAZ Authorizations



Opportunistic Utilization



Squid Web Proxy Requests



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