



Open Science Grid



Non-LHC experiments on the OSG

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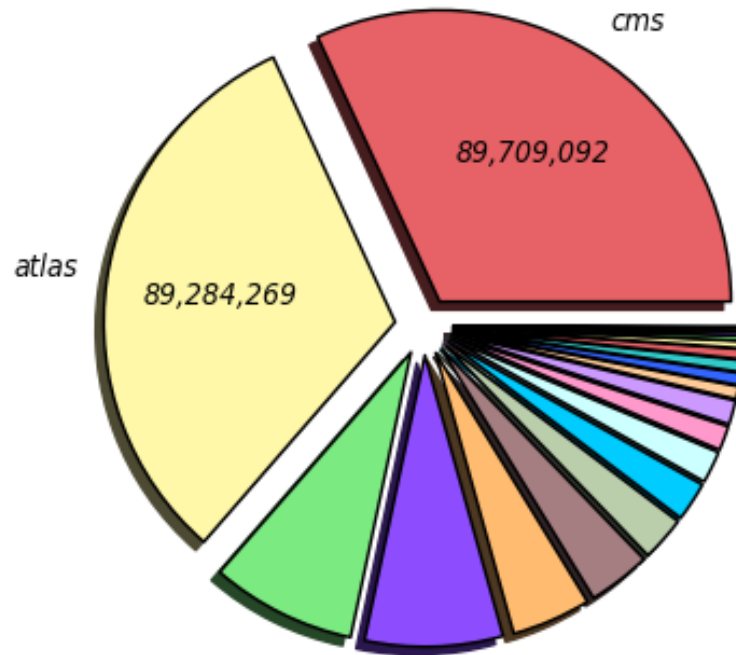
March 14, 2016
OSG All-Hands Meeting
Clemson, SC





Four years ago

Wall Hours by VO (Sum: 281,426,506 Hours)
26 Weeks from Week 37 of 2011 to Week 11 of 2012



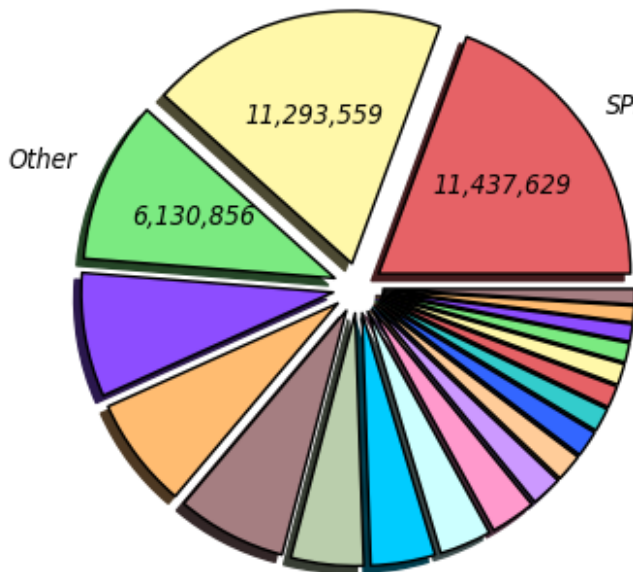
■ cms (89,709,092)	■ atlas (89,284,270)	■ cdf (22,714,120)	■ dzero (21,538,134)	■ engage (12,380,116)
■ dosar (9,793,806)	■ gridunesp (6,987,840)	■ alice (6,109,969)	■ glow (5,007,324)	■ hcc (3,803,772)
■ ligo (3,736,585)	■ minos (1,975,032)	■ minerva (1,863,469)	■ sbgrid (1,809,109)	■ gluex (1,553,715)
■ nova (1,098,246)	■ Other (723,044)	■ mu2e (582,400)	■ auger (510,905)	■ dune (245,559)



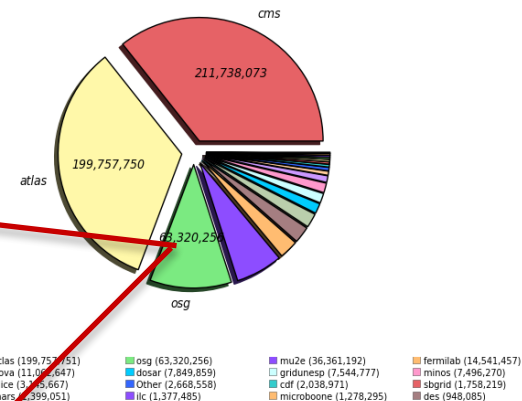
Now

Wall Hours by VO (Sum: 593,982,123 Hours)
26 Weeks from Week 37 of 2015 to Week 11 of 2016

Wall Hours by VO (Sum: 59,194,012 Hours)
182 Days from Week 37 of 2015 to Week 11 of 2016
TG-IBN130001



Wall Hours by VO (Sum: 593,982,123 Hours)
26 Weeks from Week 37 of 2015 to Week 11 of 2016



- SPLINTER (11,437,630)
- DUKE-QGP (4,222,279)
- SOURCECODING (1,975,081)
- OSG-STAFF (998,575)
- FFVALIDATE (729,608)

- TG-IBN130001 (11,293,559)
- NUMFPI (4,175,828)
- CMS-ORG-ND (1,721,799)
- LIGO (898,271)
- PREBIOEVO (648,080)

- Other (6,130,856)
- AMS (2,757,639)
- MICROPHASES (1,181,308)
- ICECUBE (830,474)
- IU-GALAXY (622,703)

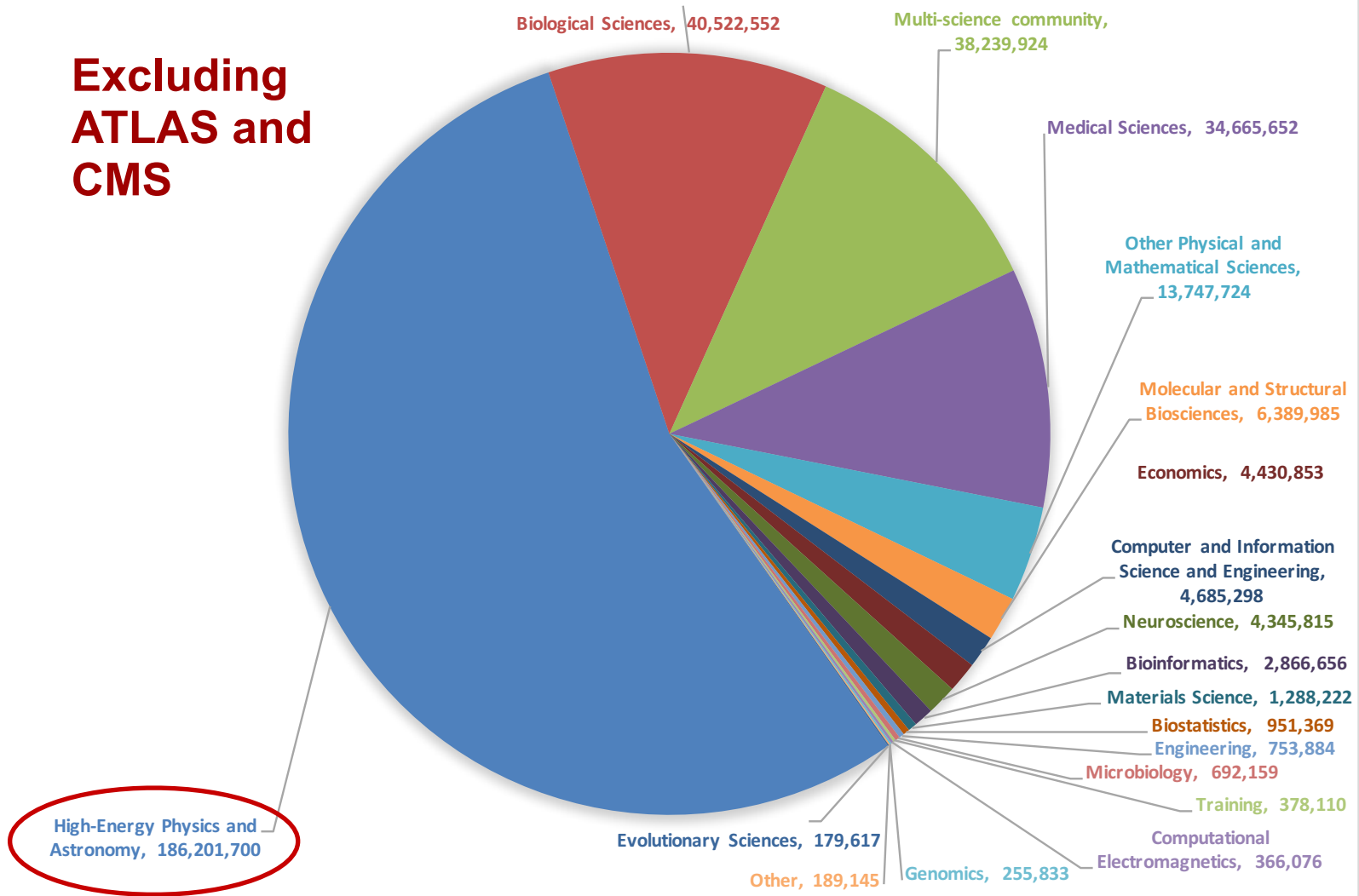
- Z2DQMC (4,700,321)
- ALGDOCK (2,450,822)
- BIOGRAPH (1,041,887)
- AMORPHOUSORDER (798,921)
- SNOPLUS (578,371)

- rnilab (14,541,457)
- inos (7,496,270)
- grid (1,758,219)
- es (948,085)



From the 2015 OSG Annual Report

**Excluding
ATLAS and
CMS**





Who we'll hear from

- DES (Gravity Wave workflow) - Ken Herner
- DUNE - Steve Timm
- mu2e - Ray Culbertson
- IceCube - Gonzalo Merino
- sPHENIX - Martin Purschke
- LIGO - Brian Bockelman

- See Ken's talk on FIFE tomorrow as well



Some scattered thoughts

- Two “modes” of access
 - Sustained high-level use (e.g. mu2e)
 - Rapid startup and (relatively) short-lived campaigns (e.g. sPHENIX and AMS)
 - Flare-ups (e.g. LIGO, DES-GW)
- Understanding how to set priorities accordingly for the latter two modes is a work in progress
- Data movement
 - Biggest users are still only using OSG opportunistic resources for MC generation
 - StashCache helps but only to a point



Access to resources

- Trust model revisited
 - Easier to ask sites to support a few large VOs rather than one per experiment
 - Are we headed towards everyone running under OSG, GLOW, and Fermilab?
- Non-OSG resources
 - Adding non-US grid sites for NOvA and MicroBooNE by registering them as OSG sites
 - IceCube and AMS have used non-grid resources by way of Bosco
 - AWS and other cloud resources?