List of Presentation and Talks

Oliver Gutsche

July 1, 2025

- O. Gutsche, Scientific Computing and Scientific Software Infrastructure High Performance Computing (HPC), (2025), Presentation for the Chicagoland Computational Traineeship in High Energy Particle Physics, (Material)
- O. Gutsche, Scientific Computing and Scientific Software Infrastructure Particle Physics Overview, (2025), Presentation for the Chicagoland Computational Traineeship in High Energy Particle Physics, (Material)
- O. Gutsche, Computing and Software Infrastructure, (2024), Presentation at the Fermilab-CERN HCP Summer School 2024, (Material)
- O. Gutsche, HL-LHC Computing, (2023), Presentation at the USCMS Undergraduate Summer Internship 2023, (Material)
- O. Gutsche, **The U.S. CMS HL-LHC R&D Strategic Plan**, (2023), Parallel Session Talk at the 26th International Conference on Computing in High Energy & Nuclear Physics (CHEP2023), (Material)
- O. Gutsche, **Computing**, (2022), Plenary talk given at the DOE/HEP Review of the Energy Frontier Laboratory Research Program, (Material available upon request)
- O. Gutsche, Computing, (2022), Lecture given at 17th Hadron Collider Physics Summer School, (Material)
- O. Gutsche, Exabytes and the Large Hadron Collider: the importance of computing excellence for scientific discovery, (2019), Seminar given at Dr. Leonard Weisenthal Colloquium Series at Lewis University, (Material)
- O. Gutsche, WLCG Web Proxy Auto Discovery for Dynamically Created Web Proxies, (2019), Parallel Session Talk at the 24th International Conference on Computing in High Energy & Nuclear Physics (CHEP2019), (Material)
- O. Gutsche, Bringing heterogeneity to the CMS software framework, (2019), Parallel Session Talk at the 24th International Conference on Computing in High Energy & Nuclear Physics (CHEP2019), (Material)
- O. Gutsche, **Highlights from Parallel Session: Software & Computing**, (2019), Plenary Talk at the 2019 US CMS Annual Collaboration Meeting, (Material)
- O. Gutsche, Software & Computing, (2019), Plenary Talk at the 2019 US CMS Annual Collaboration Meeting, (Material)
- O. Gutsche, CMS Software, Computing and Analysis Tools, (2019), Plenary Talk at the CMS Data Analysis School 2019 (CMSDAS 2019), (Material)
- O. Gutsche, Exploring the Energy Frontier using Amazon Web Services, (2018), Amazon Booth at Supercomputing 2018 in Dallas, TX, (Material)
- O. Gutsche, The Future of Large Scale Scientific Computing Trends in computing hardware, (2018), US ATLAS Workshop 2018 Open Day at the University of Pittsburgh, (Material)
- O. Gutsche, **The Future of Large Scale Scientific Computing**, (2018), Colloquium given at the Physics Department at the University of Massachusetts Amherst, (Material)
- O. Gutsche, CMS Software, Computing and Analysis Tools, (2018), Plenary Talk at the CMS Data Analysis School 2018 (CMSDAS 2018), (Material)
- O. Gutsche, **Data Organisation**, **Management and Access (DOMA) in High Energy Physics**, (2017), Talk at the Workshop for Data Organisation, Management and Access (DOMA) in Astronomy, Genomics and High Energy Physics (DOMA2017), (Material)
- O. Gutsche, **The Future of Large Scale Scientific Computing**, (2017), Colloquium given at the Department of Physics and Astronomy at Texas Tech University, (Material)

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- O. Gutsche, Particle Physics A world wide journey from recording particles to analysis using big computing, (2017), Plenary Talk at the Chicago Council on Science & Technology Panel: Fermilab and the New Frontiers of Physics, (Material)
- O. Gutsche, CMS Analysis and Data Reduction with Apache Spark, (2017), Parallel Session Talk at the 18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017), (Material)
- O. Gutsche, **50 years Fermilab Computing Innovations**, (2017), Talk at the Fermilab 50th Anniversary Symposium, (Material)
- O. Gutsche, Status and Plans of the CMS Big Data Project, (2017), Talk at the CERN Database Futures Workshop 2017, (Material)
- O. Gutsche, **Data Management**, **Access and Organisation (DOMA)**, (2017), Summary Talk at the 2nd S2I2 HEP/CS Workshop, (Material)
- O. Gutsche, **Data Analytics in Physics Data Reduction**, (2017), Talk at the CERN openlab Workshop on Machine Learning and Data Analytics 2017, (Material)
- O. Gutsche, Panel Discussion on the S2I2 Conceptualization for HL-LHC, (2017), Talk at the Openscience Grid All Hands Meeting (OSG AHM 2017), (Material)
- O. Gutsche, The Fermilab HEPCloud, or How to add 240 TFlops in an Hour or Two, (2017), Talk at HEP Software Foundation Workshop, (Material)
- O. Gutsche, Intel Big Data Project: CMS Physics Data Reduction Use Case, (2016), Talk at the CERN openlab Technical Workshop 2016, (Material)
- O. Gutsche, Big Data in HEP: a Comprehensive Use Case Study, (2016), Parallel Session Talk at 22nd International Conference on Computing in High Energy and Nuclear Physics (CHEP 2016), (Material)
- O. Gutsche, Big Data at FNAL, (2016), Plenary Talk given at the 8th INFIERI Workshop, (Material)
- O. Gutsche, **Amazon and the Future of Computing**, (2016), Ask-A-Scientist Lecture given to the general public at Fermi National Accelerator Laboratory, (Material)
- O. Gutsche, Exascale and Exabytes: Future directions in HEP software and computing, (2015), Seminar given at Center of Research Computing Seminar Series the University of Notre Dame, (Material)
- O. Gutsche, Exascale and Exabytes Computing at Fermilab for LHC and Intensity Frontier, (2015), Seminar given at the University Los Andes in Bogota, Colombia, (Material)
- O. Gutsche, Future directions in HEP Software and Computing, (2015), Plenary talk given at the Meeting of the Division of Particles & Fields of the American Physical Society at the University of Michigan (DPF2015), (Material)
- O. Gutsche, Diversity in Computing Technologies and Strategies for Dynamic Resource Allocation, (2015), Plenary talk given at the Conference for Computing in High Energy Physics (CHEP2015), Okinawa, Japan, (Material)
- O. Gutsche, CMS Computing Operations: Outlook on LHC Run 2, (2015), Talk given at the Openscience Grid All Hands Meeting 2015 at Northwestern University (OSGAHM2015), (Material)
- O. Gutsche, Computing Facilities and Services, (2015), Talk given at the Fermilab Institutional Review 2015, (Material)
- O. Gutsche, Scientific Computing, (2014), Plenary talk given at the 47th Annual Fermilab Users Meeting, (Material)
- O. Gutsche, **CMS computing operations: the year ahead**, (2014), Talk given at the Openscience Grid All Hands Meeting 2014 at SLAC (OSGAHM2014), (Material)
- O. Gutsche, Recent Top Pair Asymmetry Measurements at CMS, (2014), Seminar given at the Fermilab Joint Experimental-Theoretical Physics Seminar, (Material)
- O. Gutsche, Computing: From Data to Physics, (2013), Ask-A-Scientist Lecture given to the general public at Fermi National Accelerator Laboratory, (Material)
- O. Gutsche, Measurement of top quark properties with CMS, (2013), Parallel session talk given at the 19th International Symposium on Particles, Strings, and Cosmology (PASCOS2013), Taipei, Taiwan, (Material)
- O. Gutsche, CMS: T2 dynamic data placement and plans for T2 disk space handling, (2013), Plenary talk given at the 2013 WLCG Collaboration Workshop in Copenhagen, Denmark, (Material)

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- O. Gutsche, CMS: Disk/Tape Separation, (2013), Plenary talk given at the 2013 WLCG Collaboration Workshop in Copenhagen, Denmark, (Material)
- O. Gutsche, Computing Support Facilities, (2013), Talk given at the 2013 Fermi National Accelerator Laboratory Annual Science and Technology Review, (Material)
- O. Gutsche, **CMS computing operations in LHC run 1**, (2013), Parallel session talk given at the 2013 Conference for Computing in High Energy Physics (CHEP2013), Amsterdam, The Netherlands, (Material)
- O. Gutsche, CMS Production Transfer Case Study, (2013), Talk given at the 2013 Department of Energy ESNet Requirements Review, (Material)
- O. Gutsche, Summary of CMS Operations Procedures, (2012), Talk given at the WLCG Collaboration Workshop 2012, (Material)
- O. Gutsche, Summary of Event Processing Track, (2010), Plenary talk given at the conference for Computing in High Energy and Nuclear Physics 2010 (CHEP2010) in Taipei (Taiwan), (Material)
- O. Gutsche, Validation of software releases for CMS, (2009), Parallel session talk given at the conference for Computing in High Energy and Nuclear Physics 2009 (CHEP2009) in Prague, Czech Republic, (Material)
- O. Gutsche, Dilepton Final States Studies at CMS: From the Standard Model to New Physics, (2009), Talk given at the LHC and Dark Matter Workshop at the University of Michigan in Ann Arbor, MI, (Material)
- O. Gutsche, WLCG scale testing during CMS data challenges, (2007), Parallel session talk given at the conference for Computing in High Energy and Nuclear Physics 2007 (CHEP2007) in Victoria, Canada, (Material)
- O. Gutsche, **Distributed CMS Analysis on the Open Science Grid**, (2006), Parallel session talk given at the conference for Computing in High Energy and Nuclear Physics 2006 (CHEP2006) in Mumbai, India, (Material)

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