

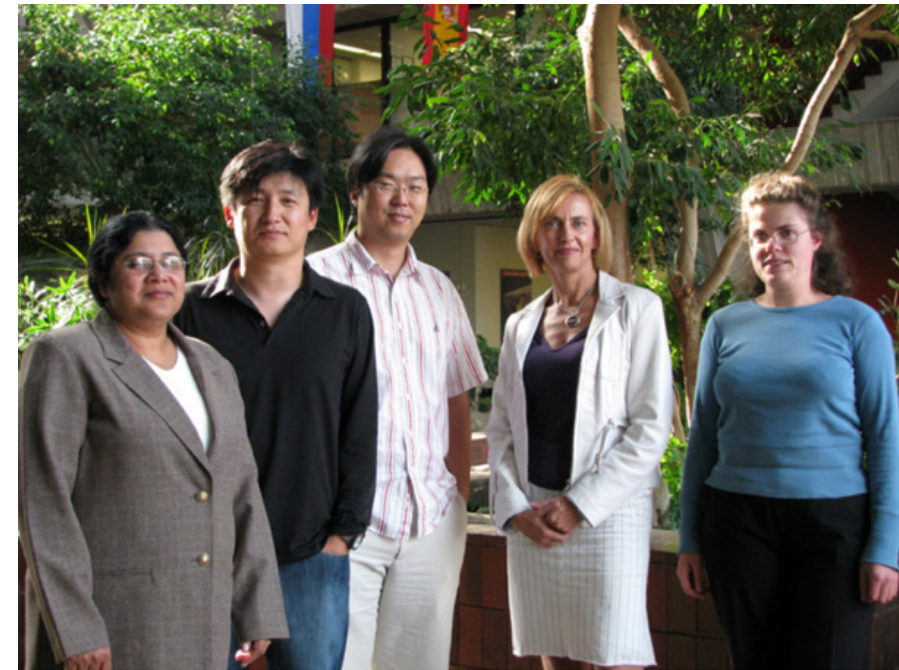
Recollections:

First “scientific” project in collider physics from my boss

First arrival at Fermilab: January 4, 1993: dark, jet lag, heavy wet snow, I have to drive automatic car first time in my life

Paul Grannis presents D0 measurement

Top quark cross sections measurements



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Universitat Bonn




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Evidence for single top
production
Single top quark discovery
2009

Karl Jacobs in R1 when I was on CMS: “You have chosen a wrong collaboration!”

Karl Jacobs in R1 when I was on CMS: “You have chosen a wrong collaboration!”



The banner features a night sky background with a yellow grid pattern on the left. The text 'US/LHC' is at the top, followed by 'Particle Physics at Discovery's Horizon' and 'Pajama party' in orange script. Logos for the National Science Foundation and U.S. Department of Energy are at the bottom.

Pajama Party Home

Press Room

US/LHC Web Site

US CMS Web Site

US ATLAS Web Site

Fermilab Home Page

FIRST BEAM PAJAMA PARTY!

1:30 a.m. Wednesday, September 10, 2008 LHC Remote Operations Center in Wilson Hall at Fermilab

Watch the first beam circulate in the Large Hadron Collider. Live connections between CERN and Fermilab will follow the action in Switzerland as it happens.

Breakfast will be served following the LHC start-up.

Pajamas are optional...

PLANNING TO ATTEND?

Registration is now closed.

Karl Jacobs in R1 when I was on CMS: “You have chosen a wrong collaboration!”



First beam March 30, 2010: a moment of absolute happiness



Karl Jacobs in R1 when I was on CMS: “You have chosen a wrong collaboration!”



First beam March 30, 2010: a moment of absolute happiness

Months of disappointment: ATLAS analysis review and first paper with Anna Henrichs a long and sleepless analysis journey



ATLAS



Another magic moment:
collisions at 13 TeV in 2015



COVID ACR



Thank you, thank you!

Paul Grannis
D0 spokesperson



Cecilia Gerber
Professor at the University of Illinois



Thank you, thank you!

Arnulf Quadt



PlainSite®

Legal Document

Illinois Northern District Court
Case No. 1:08-cv-02682
Shabalina v. Chertoff

Document 1

Michael Chertoff
Director of Homeland Security

Thank you, thank you!

Arnulf Quadt

For making a call at the right time and proposing to join the group

For giving me a lot of freedom and allowing to work on all projects I was interested in

For support in all my nominations

For sending to all conferences I was selected by ATLAS and invited personally

For bringing outstanding students to the group



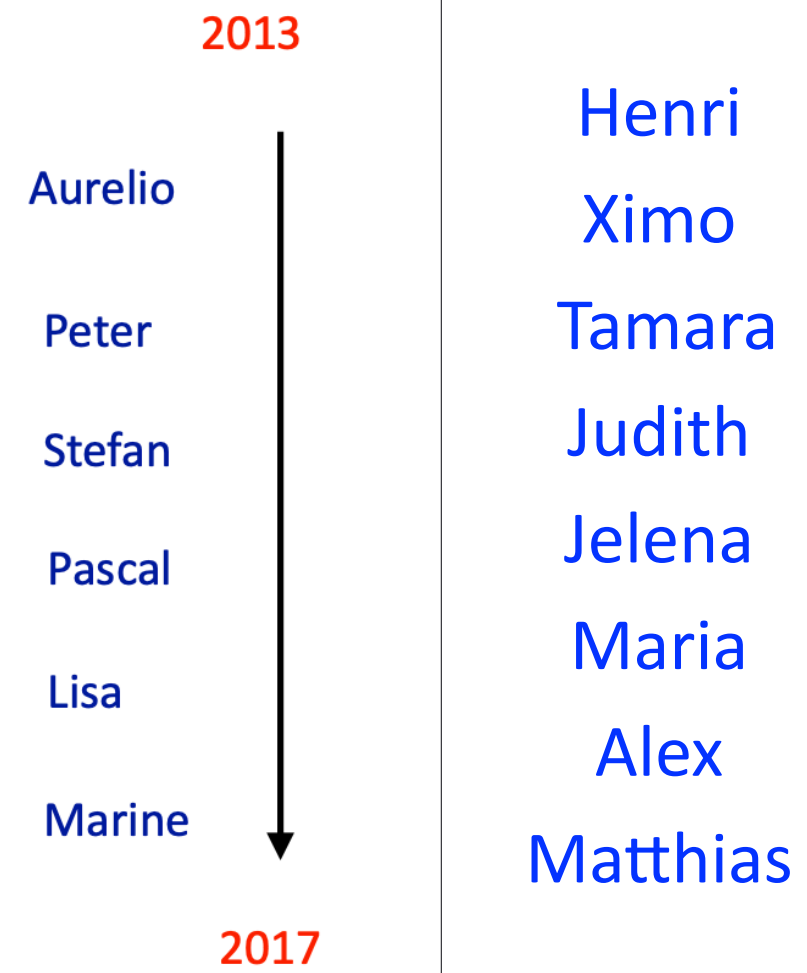
Thank you, thank you!

My colleagues, collaborators and our outstanding talented students



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

HTop conveners summary plot



Thank you, thank you!

My colleagues, collaborators and our outstanding talented students

Frederic Deliot, Reinhard Schwienhorst, Wolfgang Wagner, Francesco Spano, Marcel Vos, Johannes Erdmann, Andrea Knue, Nedaa-Alexandra Asbah, Josh McFayden



ATLAS Top workshop 2024
Benasque, Spain

Thank you, thank you!

Lucie Hamdi - my guardian angel
for helping me with documents,
insurances, bank accounts,
doctor's appointments, taxes,
reimbursements and providing
place to stay



Thank you, thank you!

My family

for never expecting that I drop my job and will be 100% grandma

for giving me joy of spending time together



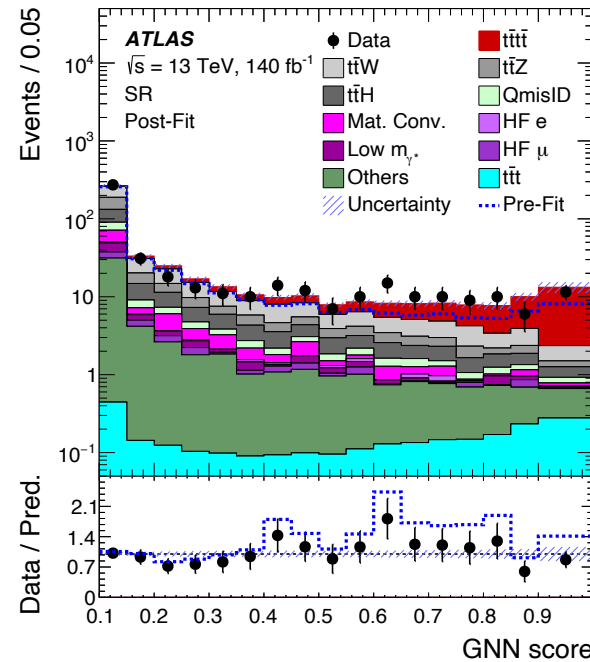
Magic moments



Top pair production cross section and branching ratio measurements

For the DØ Collaboration

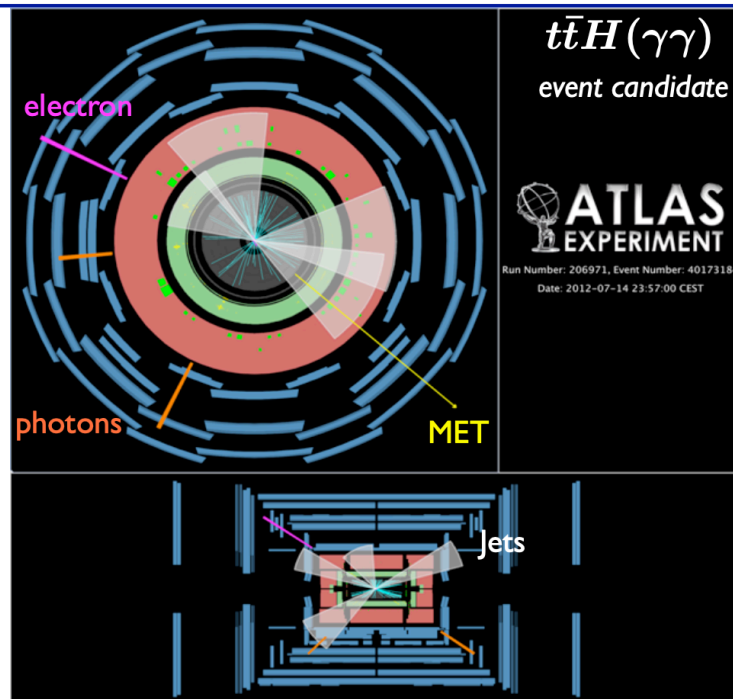
Elizaveta Shabalina
 University of Illinois at Chicago
 Joint Theoretical and Experimental Seminar
 Fermilab, 09/16/05



4-top observation

Moriond EW 2023

Recent progress in ATLAS top pair cross sections: from precision measurements to rare processes



Elizaveta Shabalina
 II. Physikalisches Institut,
 Universität Göttingen

on behalf of the
 ATLAS collaboration

CERN-LHC seminar
 September 16, 2014



Summary

- Two new ATLAS results with full Run 2 data set and final calibrations in multilepton final state were presented
- Inclusive, fiducial and the first differential cross section measurement of $t\bar{t}W$
- Inclusive cross section is found to be higher than reference theory prediction and consistent with it at 1.5 σ level
- normalised differential distributions agree with data
- First 4-top quark observation was reported with 6.1 σ significance
- Measured cross section is consistent with SM prediction at 1.8 σ level
- The results are used to set limits on several BSM scenarios

Conclusions and outlook

Work less but stay active



Workout every day



Explore the world



Spend time with my family



Améliorer mon français !!!
une heure par jour