Welcome to HEPIX2013 at the University of Michigan



Homer A. Neal University of Michigan

Goal of Comments

- To extend a warm welcome to each of the participants; we hope you will have an enjoyable stay in Ann Arbor
- To say a few general words about the University of Michigan
- To cite a few examples of Michigan's contributions to physics
- To say a few words about Michigan's contributions to networking
- To acknowledge the hard work of the Organizing Committee

The University of Michigan

The University of Michigan was founded in 1817 as one of the first public universities in the nation. It was first established on 1,920 acres of land ceded by the Chippewa, Ottawa, and Potawatomi people "...for a college at Detroit." The school moved from Detroit to Ann Arbor in 1837, when Ann Arbor was only 13 years old. The city had a booming population of 2,000, a courthouse and jail, a bank, four churches and two mills.

Michigan History (today)

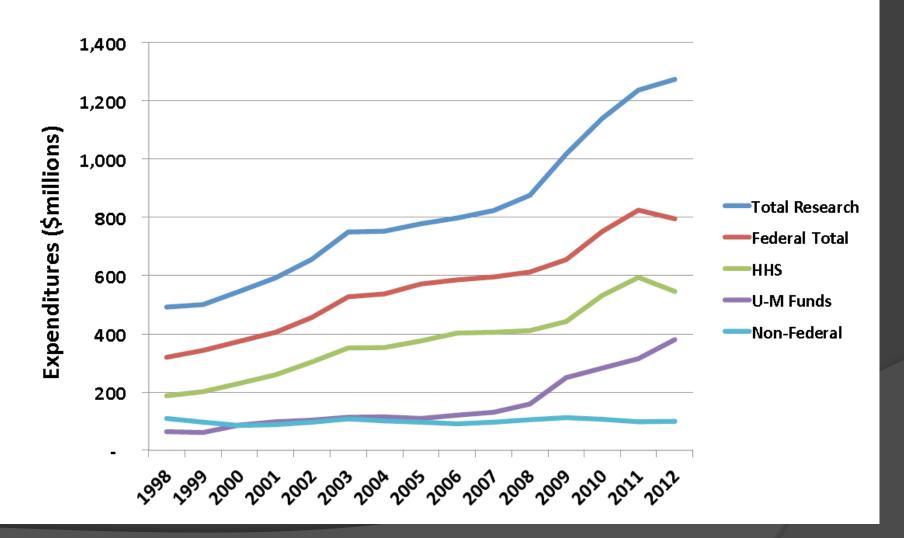
 Today the University has over 51,000 students and 5,600 faculty at three campuses. The University of Michigan boasts of one of the largest health care complexes in the world, the best university library system in the country, and the some of the best computer access for students and faculty of any campus in the world. Over 5,500 undergraduate courses are taught each term in over 100 programs. Undergraduate, graduate and professional students have a choice of 17 separate schools and colleges, 588 majors, over 600 student organizations, 350 concerts and recitals every year, as well as hundreds of speakers, symposia, films, and readings.

U-M's CORE FUNCTIONS

- RESEARCH
- \$1.3 B
- HEALTH CARE
- \$2.4 B
- EDUCATION
- \$1.3 B



GROWTH OF U-M RESEARCH



A Word About Michigan Physics

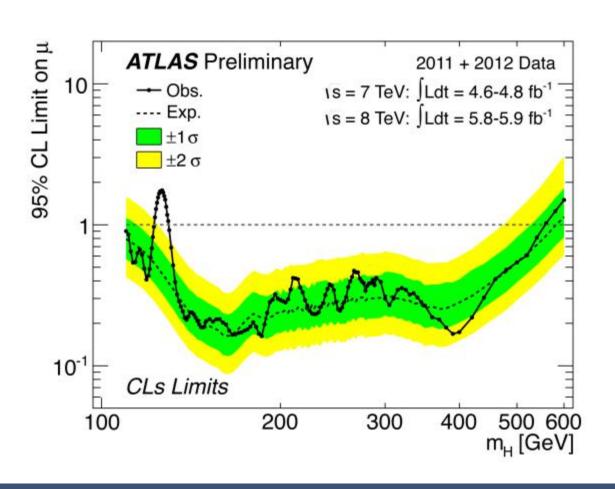
- Invention of the Bubble Chamber
- First idea for racetrack cyclotron
- Primary professional home for Uhlenbeck and Goudsmit – discoverers of electron spin
- Discovery of proton spin (Dennison)
- Major participation in the discovery of the top quark and Higgs boson
- lacktriangle Discovery of Ξ_{b} and Ω_{b} hyperons

First Collisions: A Remarkable Moment in Science

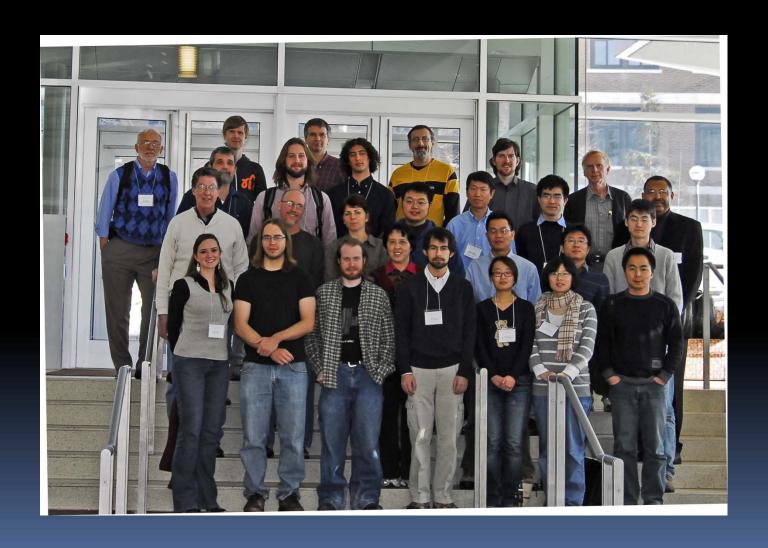


Experimental limits from ATLAS on Standard Model Higgs production.

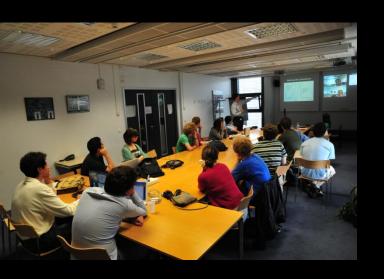
Conditions of Use ATLAS Experiment © 2012 CERN



The Michigan ATLAS Group



Providing CERN Access for U.S. Students









A Major Role in the Internet

NSFNET -> Internet

- 1989 Tim-Berners-Lee invents HTML, WWW
- 1991 NSFNET to 45 megabits
- 1993 NCSA releases Mosaic browser
- 1994 In response to industry requests, NSF approves commercial access to NSFNET
- 1995 NSFNET traffic 25,000 X 1988 traffic!
- 1995 NSFNET shuts down, replaced by commercial providers, National Research and Education Networks

Examples of contributions in other Fields

- In the early 1900s, Dr. Aldred Warthin, an early pathologist, became one of the first researchers to establish that cancer could be hereditary.
- In 1954, U-M conducted the clinical trial that demonstrated the effectiveness of the Salk polio vaccine.
- In 1956, Dr. James V. Neel founded the first genetics department in a medical school in the U.S.

The University wants to acknowledge the enormous effort made by Shawn McKee and his colleagues on the Organizing Committee in making the Conference possible

Best wishes for a productive week!