



Workshop Introduction

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Fermilab

Phystat-Nu 2016, Sep. 20, 2016

Welcome to Phystat-Nu Fermilab 2016

- >= 108 Participants
- 5 invited statisticians
 - David van Dyk
 - Todd Kuffner
 - Richard Lockhart
 - Xiao-Li Meng
 - Aixin Tan
- And mostly statistics-minded Particle Physicists
- Sizable overlap with May-June Kashiwa workshop attendees.

About the Venue

No food or drink allowed in the Lecture Hall!





- Restrooms Around the corner at the end of a twisty, angular hall.
- Group Photo Tuesday at 3:00 Reidar Hahn

Timetable News

- No poster session!
 - We received one poster abstract, and chose instead to give the presenter an oral slot.
- Reception and Drinks tonight at Wilson Hall at 6:30
 PM. Many thanks to the Fermi Research Alliance.
- Dinner catered at Wilson Hall Tuesday 6-8 PM.
 Separate fee as part of the signup.
- 1.5 hour Panel discussion on Wednesday morning. Check the suggested questions on indico (menu bar on the left) and **send more** to **trj@fnal.gov** and **louis.lyons@physics.ox.ac.uk**
- Panelists: Costas Andreopoulos, Kyle Cranmer, Bob Cousins, David van Dyk, Xiao-Li Meng

Remote Connection Information

- We will use ReadyTalk: http://readytalk.com
- The Meeting ID is 3872183
- Toll-free phone number (US) +1 866 740-1260. Other numbers available on the web site.

A (Helpful) Glossary

Physicist's Word	Statistician's Word
Event	Count
Experimental Outcome	Event
Measurement	Point Estimate
Estimate	Guess
Statistics	Sample Size, or just "data"
Error	Uncertainty
Discrepancy	Error
Probability Distribution Function	Probability Density Function
Cumulative Distribution	Probability Distribution Function
Ensemble	Sample Space
Hypothesis Test	Hypothesis Test

Data are almost always "Marked Poisson" counts. Where the "marks" are the data stored on each event. "Efficiency" is the probability an event is selected (or triggered)