



# Multi-boson Interactions Workshop 2018

Aaron Pierce, Jianming Qian, James Wells, Bing Zhou, Junjie Zhu

University of Michigan

# Welcome

- Welcome to the University of Michigan
  - The UM ATLAS group and the Leinweber Center for Theoretical Physics are very happy to host MBI 2018 at Ann Arbor (<https://cern.ch/mbi2018>)
  - We hope you enjoy the workshop and your stay here

**Multi-Boson Interactions (MBI) 2018**  
August 28-30, 2018  
<http://cern.ch/mbi2018>  
University of Michigan  
Ann Arbor, MI, USA

**Topics:**

- Diboson and triboson production
- Higgs production
- Vector boson scattering and vector boson fusion
- Precision calculation and measurement of multiboson production
- New physics in multiboson production
- Monte Carlo generators
- LHC Run 2 results and beyond

**Program committee:**  
John Campbell (FNAL), Sally Dawson (BNL), Lindsey Gray (FNAL), Christophe Grojean (DESY)  
Tao Han (U Pittsburgh), Matthew Herndon (UW Madison), Barbara Jäger (U Tübingen)  
Michael Kobel (TU Dresden), Sabine Lammers (Indiana U), Yurii Maravin (KSU)

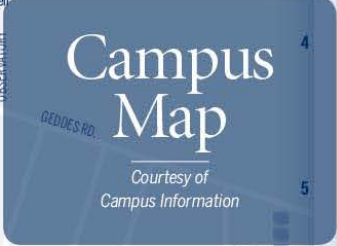
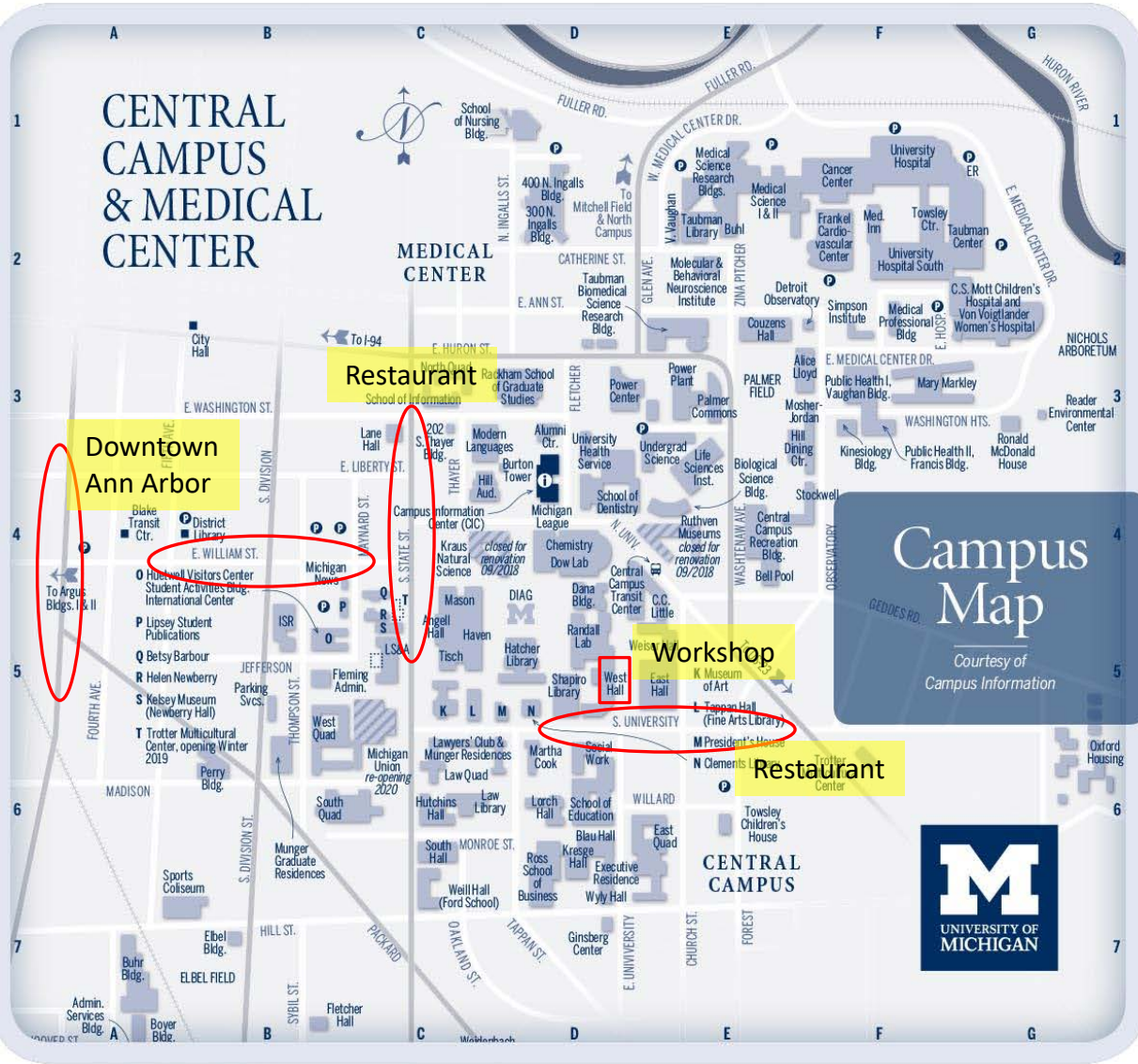
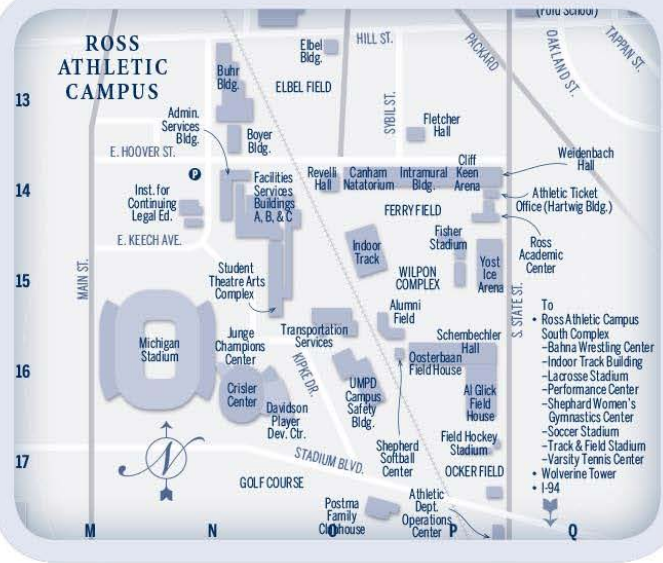
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Yurii Maravin (Kansas State University)  
Marc-Andre Pleier (BNL)  
Aaron Pierce (U Michigan)  
Jianming Qian (U Michigan)  
Juergen Reuter (DESY)  
James Wells (U Michigan)  
Bing Zhou (U Michigan)  
Junjie Zhu (U Michigan)

# UM Physics

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- About 55 faculty members and about half engaged in nuclear, particle and astro-related physics research
  - Quantum mechanics was first introduced to USA through the Michigan summer school in 1930's
  - Bubble chamber invented here (rumor has that Donald Glaser's invention was inspired by the bubbles in a glass of beer)
  - Collider physics (the largest US university group working on ATLAS)
  - Particle physics phenomenology and string theory (Leinweber Center for Theoretical Physics)
  - Kaon and neutrino physics (KOTO, MicroBooNE, DUNE, J-PARC)
  - Nuclear and subatomic physics (PHENIX, SeaQuest)
  - Astrophysics and Cosmology (LZ, DES, DESI, ACTPol)
  - Gravitational wave (LIGO)

# UM Campus



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# Some useful information

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- ❑ All talks in 335 West Hall
- ❑ All coffee breaks in 334 West Hall (Don Meyers Commons)
- ❑ Wireless: eduroam, MGuest
- ❑ Welcome reception: 340 WH starting at 6 pm tonight
- ❑ Workshop dinner: Real Seafood Company Ann Arbor (341 S. Main Street) at 7 pm Wednesday night
- ❑ Other offices: 340WH (Department colloquium room), 348WH (UM ATLAS conference room), 356WH (Junjie), 349WH (Jianming), 347WH (Bing), 3460Randall (Aaron), 3425Randall (James)
- ❑ Please do not hesitate to ask the local organizing committee and our administrative staff (Beth Demkowski, Karen O'Donovan) in case of questions!