

Name

Thesis Title

BOSTON

BRANDEIS

Zachary Schillaci	Measurement of the 4-lepton spectrum in pp collisions
Jenny Chen	H \rightarrow WW
Prajita Bhattarai	Search for New Physics in 4-l final states
Douglas Zenger	TBD
Sagar Addepalli	TBD
Francesca Capocasa	Silicon Instrumentation
Emily Duden	TBD

DUKE

Douglas Davis	Single top differential cross section
Pingchuan Zhao	Search for SUSY
Minyu Feng	W/gamma and Z/gamma Production
Sourav Sen	TBD
Michael Eggleston	TBD
Elise Le Boulicaut	TBD
Utsav Patel	TBD

HARVARD

Brendon Bullard	TBD
Gabriel Rabanal Bolanos	TBD
Dominic Chang	TBD
Anne Fortman	TBD

INDIANA

KyungEon Choi	Search for W' Bosons
Christian Johnson	W+jets production via Vector Boson Fusion
Christophe Roland	W+ W- Vector Boson Scattering with the ATLAS Detector
Rebecca Linck	Vector Boson Scattering
Blake Forland	Identification of fully hadronic hh to Wwbb decays using Machine Learning techniques
Greg Myers	Vector Boson Scattering/Vector Boson Fusion

IOWA STATE

Carlos Vergel-Infante
Will Heidorn
Shuaiyan Kang

Measurement of the Higgs pT spectrum in associated Higgs VH production
Search for the rare decays $H \rightarrow J/\psi \text{ gamma}$ and $Z \rightarrow J/\psi \text{ gamma}$
TBD

LBNL

Sal Neha Santpur
Cesar Gonzalez Renteria
Gregory James Ottino
Benjamin Ryan Roberts
Irina Ene
Benjamin Ryan Roberts
Robin Xiong
Johannes Wagner

Non-pointing Photons
Z+charm production
W+charm production
TBD
Higgs Decays to Charm
thesis Four Top Production
TBD
TBD

LOUISIANA TECH

Zahra Farazpay

TBD

NYU

Zubair Bhatti
Matthew Drnevich
Edison Weik

TBD
TBD
TBD

NIU

Elliot Parrish
Brianna Stamas
Gretel Mercado
Alec Lancaster
William KostECKA

Search for Charged Higgs production and decays to $\tau\nu$
Higgs fiducial and differential cross sections in the diphoton final state
TBD
TBD
TBD

OHIO STATE

B. Reynolds
M. Mansour

TBD
TBD Engineering (ECE) on IC design for upgrade

OKLAHOMA STATE

Wasikul Islam

Search for W' bosons decaying to the top and bottom quarks

Thilakasiri Madugoda

Search for vector-like quarks in all-hadronic final state

Egor Antipov

Search for gluinos with the ATLAS detector and development of the upgraded pixel detector

Evan Van der Wall

Search for vector-like quarks with the ATLAS detector and development of the upgraded pixel detector

SMU

Madalyn McKay

Higgs boson properties and differential distributions using $H \rightarrow 4l$ decays

James Thomas

Higgs boson couplings with complete run 2 data

Christopher Milke

Search for HH production in 4 bjets final state

Santosh Parajuli

Search for HH decays to multilepton final state

SLAC

James Black

Searches for Production of Quirks at ATLAS

Aviv Cukierman

TBD

Nicole Hartman

TBD

Murtaza Safdari

TBD

STONY BROOK

Yan Ke

Measurement of Higgs Boson decays to b-quarks in the VH production channel with both resolved and boosted jet reconstruction techniques and their combination

Mars Lyukova

Search for a new scalar particle in the bbmumu final state

TUFTS

Alec Drobac

Systematic QCD studies and measurement of these effects in V+jets events with ATLAS Run-2 data

Colette Kaya

QCD Measurements with W+jets events with full Run-2 ATLAS data

ARIZONA

You Zhou

Search for Vector Like Quarks

Hao Zhou

search for long lived particles in the muon spectrometer

Rachel Lindley

measurement of 4top production cross section

Billie Lubis

search for dark matter through isr

Nicolas Lopez-Canelas

search for dark matter through isr

Michael Schott

search for long lived particles in the muon spectrometer

Maxwell Cui

measurement of the 4top production cross section

UC IRVINE

Yvonne Ng
Taylor Faucett

Searches for new resonances with ATLAS
Interpretable machine learning for particle physics and applications to ATLAS

UC SANTA CRUZ

Sheena Schier
Cole Helling
Carolyn Gee
Nathan Kang
Yuzhan Zhao

CHICAGO

Emily Smith
Michael Hank
Lacey Rainbolt
Casey Frantz
Kristin Dona
Jan Offerman

ILLINOIS, U-C

J. Zeng
Y. Cao
W. Wei
D. Zhong

Study of vector boson scattering in semileptonic diboson decay
SUSY search, TBD
SUSY search, TBD
Search for Higgs boson pair production

IOWA

Anindya Ghosh
Diksha Garg

Search for Dark Matter with Mono-Higgs production, with Higgs decaying into a b-quark pair
TBD

Punit Sharma TBD

UMASS

Andrew Ferrante Search for exotic Higgs boson decays to a pair of spin-zero particles that decay to 4 b-jets in the ZH production channel
Mazin Khader Search for new light resonances decaying to a pair of merged b-jets
Huacheng Cai Search for exotic Higgs boson decays to four leptons
Guy Rosin Search for dark photons in four-lepton final state
Samyukta Krishnamurty TBD

MICHIGAN

Cristopher Gruel Limit on the Production of DiPhoton Resonances in 120 fb⁻¹ of pp Collisions at 13 TeV
Xiong Xiao Design of a time-to-digital converter for the MDT Phase-2 Upgrade and commissioning of the NSW Frontend electronics
Shuzhou Zhang Higgs to ZZ coupling measurement and look for VBF/VBS ZZ production evidence
Prachi Arvind first measurement of the WW polarization fractions at the ATLAS experiment
Andy Chen Searches for diphoton resonances
Kevin Nelson Searches for diphoton resonances
Jem Guhit Search for hh in bb $\tau\tau$ final state
Nicholas Kyriacou Searches for VHH production
Liana Simpson Search for new physics and dark matter with dilepton final state
Meng-Jui Tsai Studies of same-sign dilepton and multilepton events
Zhichen Wang Longitudinal-longitudinal WZ interaction studies

NEW MEXICO

Easwar Anand Narayanan TBD
Josef Sorenson TBD
Andrew Gentry TBD

OKLAHOMA

N. Grieser TBD
J. Lambert TBD
J. Muse TBD
A. Roepe TBD
D. Wilbern TBD

M. Kawale TBD
B. Shrestha TBD

OREGON

Galen Gledhill Search for a Scalar Partner of the Top Quark in the Jets+MET Final State
Aaron Kilgallon Search for dark matter mediators
Marija Glisic TBD
Nicholas Luongo TBD
Deion Fellers TBD

UPENN

Joseph Mullin Search for gauginos using fully reconstructed hadronic decays
Benjamin Rosser Invisibly Decaying Higgs Bosons in the Vector Boson Fusion Process in 13 TeV pp collisions
James Heinlein Search for RPV SUSY
Luis Felipe Gutierrez Zagazeta Search for gauginos in compressed mass scenarios using a lepton plus track signature
Sicong Lu Search for gauginos in compressed mass scenarios using displaced tracks
Riley Xu TBD
Avi Kahn TBD
Lauren Osojnak TBD
Gwen Gardner TBD
Andie Wall TBD
Robert McGovern TBD
Thomas Gosart TBD

PITTSBURGH

Chi-wing Ng An analysis of the fully differential decay rate of top quarks produced in the t-channel at 13 TeV
Ava Myers Search for invisible decays of the Higgs boson at the LHC

UT ARLINGTON

Jared Little Search for Supermetric Stop Quark to multiple leptons with the ATLAS experiment
Andrew Myers Search for VBF Higgs to invisible
Sol Vedovato Search for Charged Higgs to Tau Nu
Juan Cardenas Search for Charged Higgs to Tau Nu
Ravi Subramaniam Search for Charged Higgs to Tau Nu

UT AUSTIN

Charles Burton

Search for a heavy scalar boson decaying to $t\bar{c}$

Avik Roy

Search for Vector-Like Quarks

Mesut Unal

Search for Vector-Like Quarks

Aaron Webb

Search for anomalous high-pt Higgs production in $t\bar{t}H$

Devanshu Panchal

Top mass measurements using $b \rightarrow J/\psi X$ events

Mark Tost

TBD

UT DALLAS

Sarah Ferguson

Search for Lepton Jets in 13 TeV Collisions

WISCONSIN

Laser Kaplan

Search for low mass di-jet resonances produced in association with initial state radiation at ATLAS

Xiangyang Ju

Observation of a Standard Model Higgs boson and search for additional scalar in the $l+l+l+l$ final state with the ATLAS detector

Alex Wang

Measurement of $t\bar{t}H$ production

Manuel Silva

Search for Dark Matter

Ting Gu

TBD

Chen-Hsun Chan

TBD

Maria Prado Rodriguez

TBD

YALE

Emma Castiglia

Arianna Garcia

Jingjing Pan