

# Welcome to Purdue U

TPF23 – Oct 2<sup>nd</sup> 2023

# The midwest: Indiana & Purdue

- About 200km south of Chicago
- Endless corn fields, magnificent Lake Michigan
- Blizzards & Tornados

#### Purdue University:

- 42,000 students
- Public University
- Physics saw largest growth during Manhattan project

- Mascot "Purdue Pete"
   "Deile meter"
- "Boilermakers"







## Cradle of the Astronauts



- 50 year anniversary Apollo mission
- Honoring Sully ("Miracle on the Hudson"), Purdue alumni <u>https://youtu.be/c8SN92zF2Gw</u>

https://youtu.be/ngYo-y9SAOM



On July 20, 1969, Purdue alumnus Neil Armstrong took his famous "small step" into history as the first human to set foot on the moon. And in 1972, Eugene Cernan, another Purdue alumnus, became the most recent person to step on the lunar surface.





Precision Frontier & cutting-edge techniques

#### TPF23

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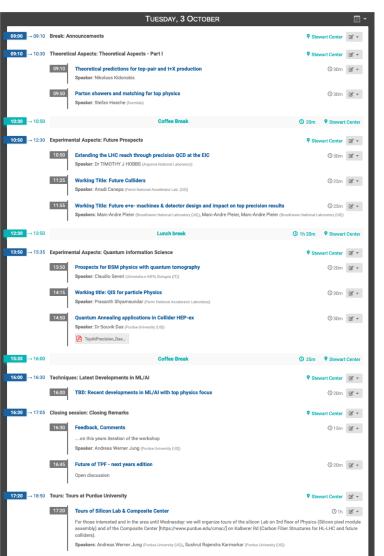
#### 3<sup>rd</sup> TOP at the Precision Frontier

Purdue University 1-3<sup>rd</sup> October, WL, USA

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		MONDAY, 2 OCTOBER			-
08:30 → 10:00	Introduction/Summary: Opening & key notes Stewart Center			t Center	B, ±
	08:30	Welcome by Purdue University Head of the Department of Physics & Astronomy Speaker: Prof. Gabor Csathy (Purdue University)		©10m	<b>3</b> , <b>4</b>
	08:45	Introduction & local welcome Includes Announcements - Practical information		©10m	B, .
	09:00	Keynote: Quantum Entanglement: from foundations to precision Speaker. Juan Antonio Aguilar Saavedra (Consejo Superior de Investigaciones Clarificas (CSIC) (ESI) Change pdf		<b>③</b> 45m	₿* *
<b>10:00</b> → 10:30		Coffee Break	(\$ 30m 💡	Stewart	Center
	Theoretic	al Aspects: Part 0	<b>9</b> Stewart	t Center	[ <b>2</b> ] +
	10:30	Working Title: Short review talk on entanglement in QFT (bi-partite or multipartite) Speaker: Nima Lashkari (Purdue University)		© 20m	
	11:00	Testing quantum mechanics and beyond Speaker: Pawel Horodecki (ödanak University of Technology)		() 20m	₿, .
	11:30	Quantum steering and discord Speaker: Yoar Afik (University of Chicago (US))		<b>3</b> 0m	₿, .
<b>12:00</b> → 13:30		Lunch break	() 1h 30m 💡	Stewart	Center
<b>13:30</b> → 15:00	Experime	ntal Aspects: ATLAS & CMS	Stewart	t Center	₽, .
	13:30	New foundational experiments with quantum process tomography Speaker: Michal Eckstein		© 30m	₿, ≁
	14:10	Working Title: ATLAS perspective on Entanglement Speaker: Dr James William Howarth (Leiversity of Gasgow (GB))		© 30m	₽, .
15:00 → 15:20		Coffee Break	🛇 20m	Stewart	Center
<b>15:30</b> → 15:50		Group Photo	<b>③</b> 20m ♥	Stewart	Center
	Meet in fra	ont of Purdue U signage outside (Weather permitting)			
<b>15:50</b> → 17:30	Experime	ntal Aspects: Other Probes: Part I	<b>9</b> Stewart	t Center	5, *
	15:50	Working title: Entanglement in nuclear collisions Speakers: Prof. James Brandenburg (University of Florida (US)		© 30m	₿, ∗
	16:30	Exploring quantum foundations with gauge bosons Speakers: Alan Barr (University of Oxford (08)), Alan Barr (University of Oxford (08)) Parp2023,Exploring		<b>O</b> 20m	
	17:00	A study of entanglement in e+ e> B Bbar events at Belle Speakers: Bruce Donald Yabsley (Weiversity of Sydney (W)), Bruce Yabsley (Weiversity of Sydney)		<b>O</b> 30m	₿, .
<b>19:00</b> → 21:00		ents: Conference Dinner	<b>9</b> Stewart	Center	₿*
	19:00	Andreas Werner Jung (Pardue University (US)) Dinner at Bruno's			<b>B</b> , <b>A</b>

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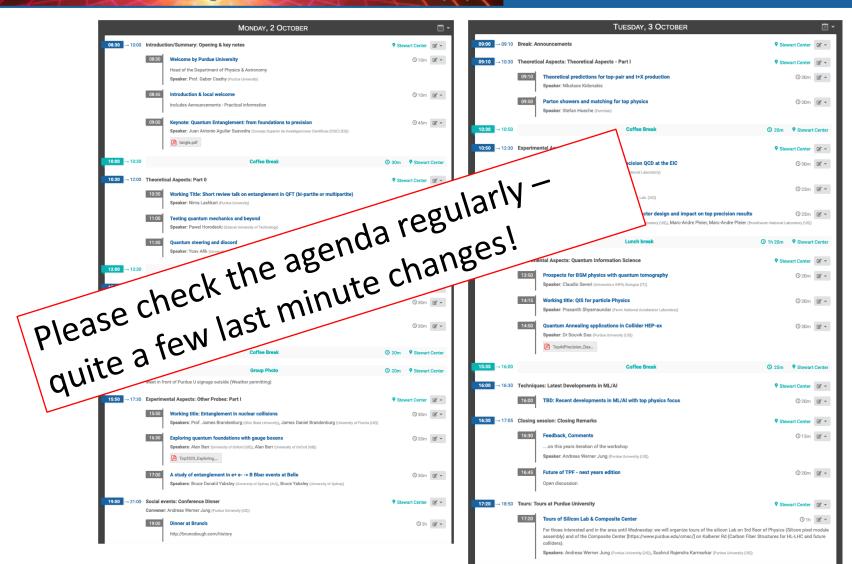
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- Quite a few last minute adjustments...
- Coffee breaks in other room 214 CD
- All talks here in 214 AB
- Lunches provided
- Dinner tonight at 7pm at Bruno's
  - <u>http://brunodough.com/history</u>
- Optional tours tomorrow afternoon of the composite center & silicon clean rooms in Physics in case you are interested