

Welcome to the PCTS workshop: Triggering on New Physics at the HL-LHC





Welcome and Thank You for Joining!

Thanks to Princeton Center for Theoretical Science

The center opened to encourage the cross-collaboration among different disciplines
While perhaps many of you already know each other, we hope you take this opportunity to connect people from different areas!

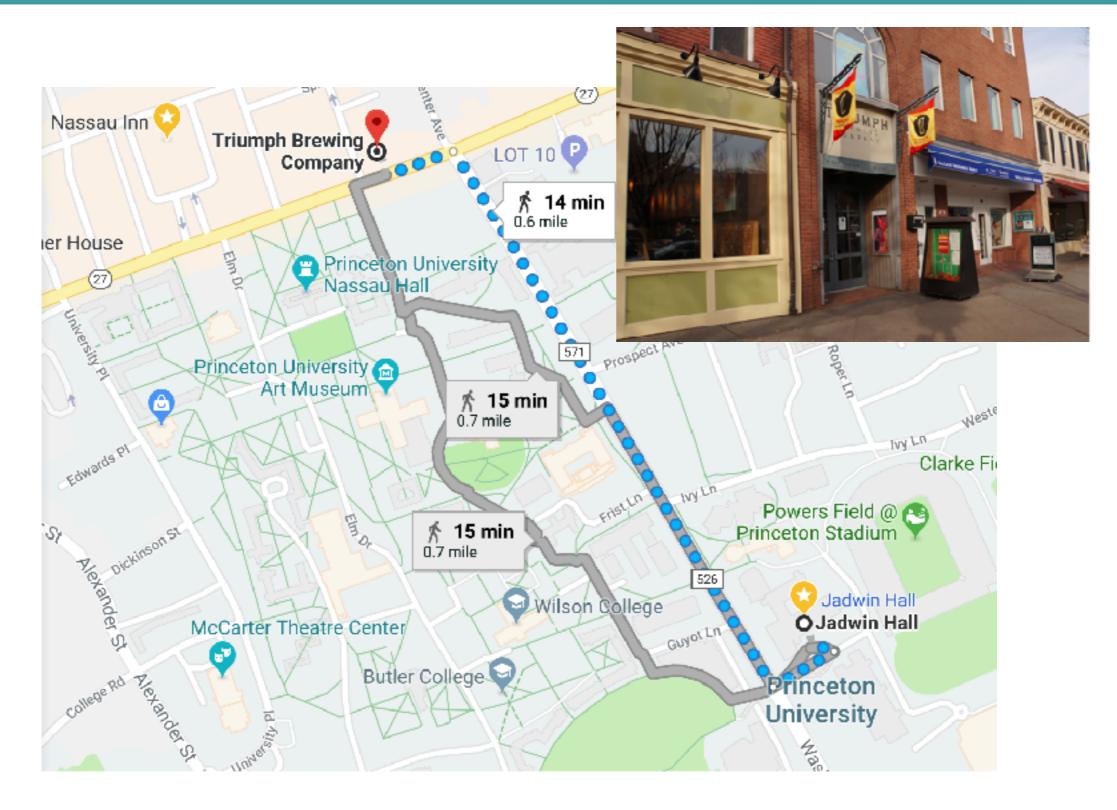
 Please take advantage of the surrounding tables for discussion or work

 We have a spare conference room near the entrance for connecting to remote meetings

- Perhaps we create a sign up sheet for shared rides to the airport

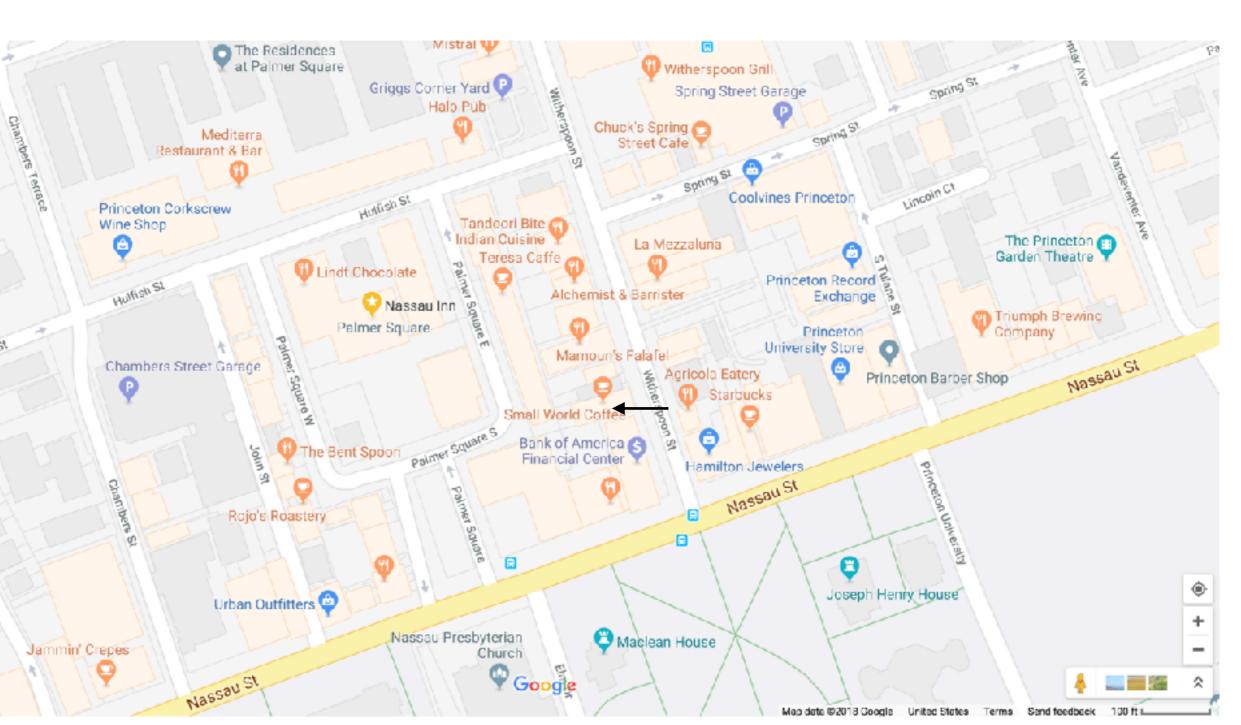


Triumph Brewing Monday Evening



We will be making a sign up list for Dinner on Tuesday





*small world coffee is cash only - I hear Rojo's is also good



Right now we are at a unique opportunity:

 Many of the technologies and conditions for the CMS Phase 2
 Trigger Upgrade and HL-LHC have been discussed and algorithms/ triggering methodologies explored within the CMS collaboration

- New Physics has not been discovered at the LHC (yet)

•Very very rare or well hidden!

How we can best leverage an upgraded trigger system:

Flexibility for new ideas Developing (new or standard) algorithms that will trigger on new physics signatures Data parking/scouting Where to focus our efforts for the next round of development!

- **A final note:** While we have kept the workshop small this year, perhaps we can extend the invitation to other experiments in future iterations

