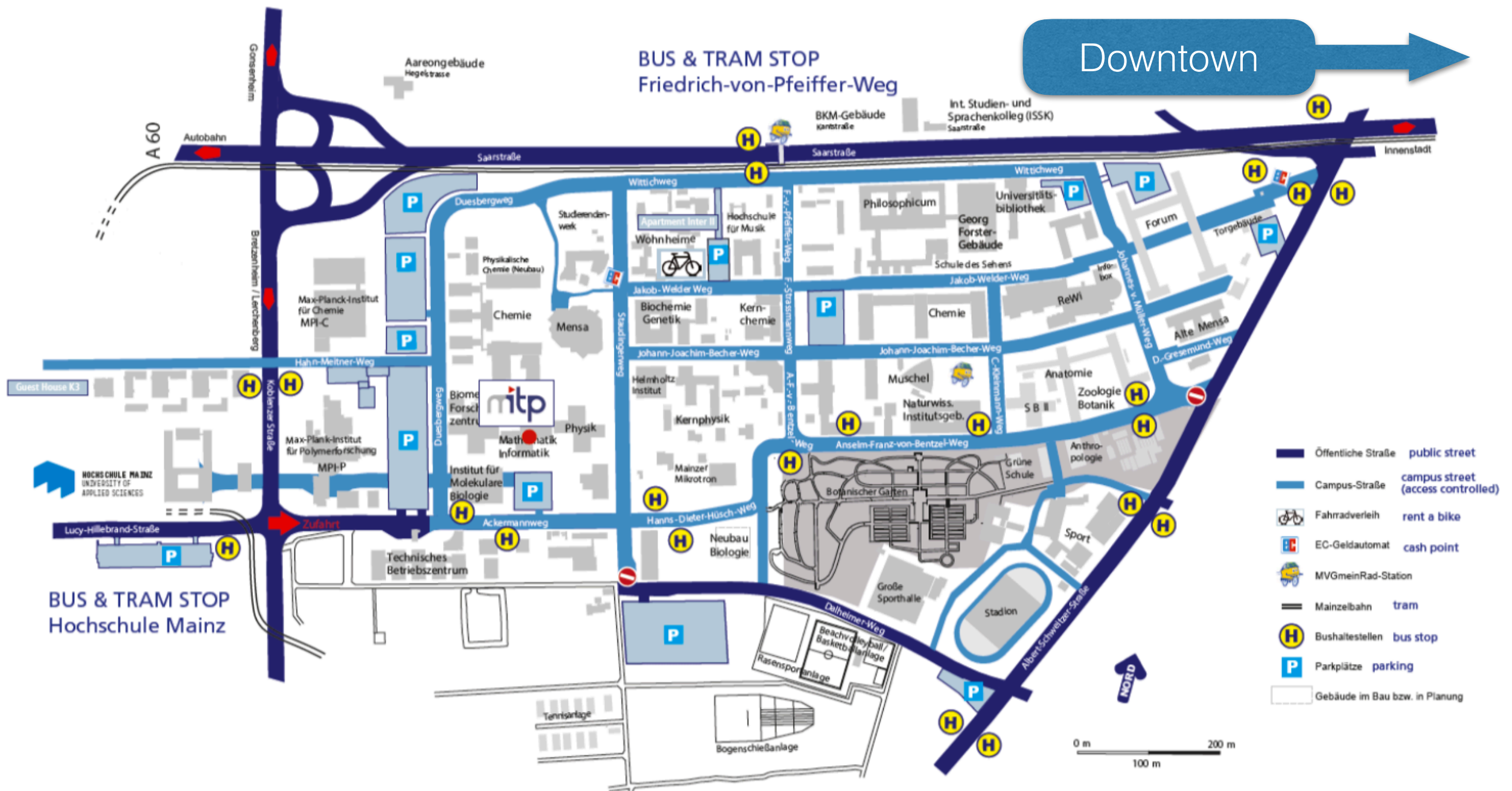


# Fundamental Composite Dynamics: Opportunities for Future Colliders and Cosmology

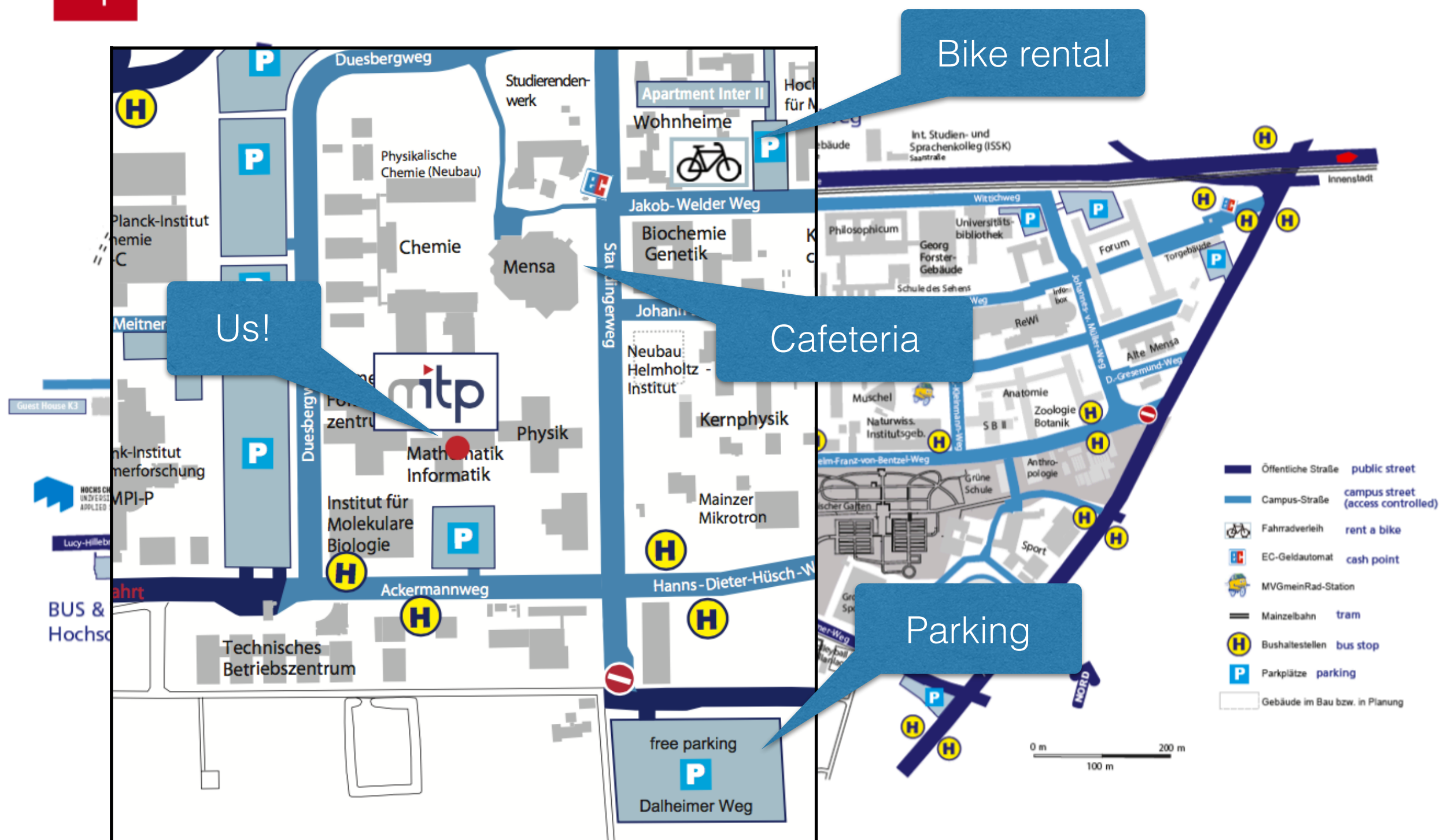
Mainz University Campus  
26/08 — 06/09, 2019

*Welcome!*

# JG|U CAMPUS MAP



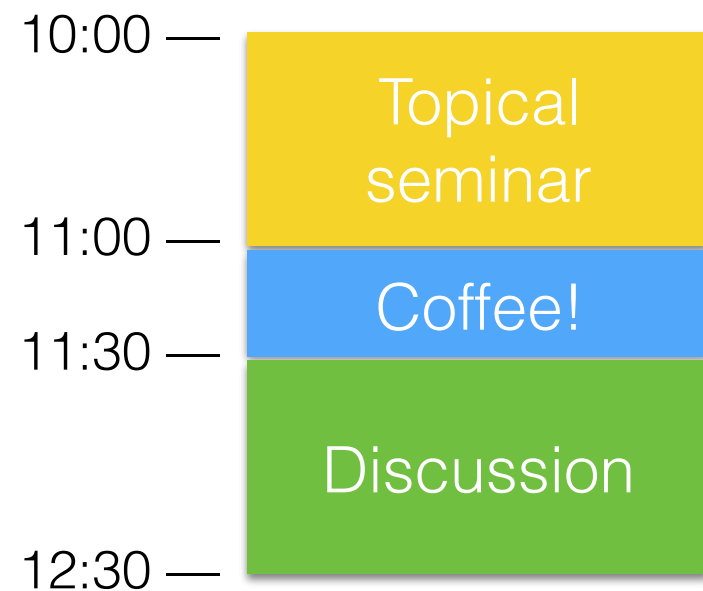
JG|U CAMPUS MAP



# Practicalities

- No social events pre-organised: it's in our hands during the 2 weeks!
- Lunch: we can go together to the MENSA (upstairs cash payments allowed, downstairs you need a card - ask Heidi or Sibylle)
- Coffee break (Cakes): 15h00
- Weekly bus tickets: at the Main train station!
- For any question, ask us, Heidi or Sibylle

# Physics



Introducing a topic  
(informal format!)  
See program on Indico

Share your ideas about the  
topic!

## Lunch



Participant's space:

- propose/give talks
- setting working groups
- discussion
- work done!
- visit Mainz
- enjoy local wine
- ...



# Physics

10:00 —

Topic  
seminar

Introducing a topic  
formal f

11:00 —

11:30 —

The program will be continuously  
updated!

Ask any of us to add something on the  
Indico page.

14:00 —

Col

discussion

18:00 —

- VIS.
- have a
- ...

# Physics

## Week 1

	Speakers	Topics
<b>Mon</b>	Us all!	Introductory talk/chat
<b>Tue</b>	Stephanie Beauceron	VLQ: experiment
<b>Wed</b>	Werner Porod	B-anomalies
<b>Thu</b>	Naveen Gaur & Luca Panizzi	VLQ: theory
<b>Fri</b>	Eric Conte & Luca Panizzi	Tools

# The organisers:



Giacomo Cacciapaglia (IP2I Lyon/CNRS, France)



K. Sridhar (TIFR, India)



Thomas Flacke (IBS CTPU, South Korea)



Benjamin Fuks (Sorbonne, France)

...and...



# Fundamental dynamics

- Are there any gaps in the LHC search program?
- What do we know from lattice? For which theories? What do we want to know?
- How far are we from a fundamental dynamical model?
- Is it there a smoking gun for compositeness?
- Can we deal with all the hints from the lepton sector? Could it be composite?
- What kind of Cosmologies emerge from composite models?
- What does one gain by paying the price of compositeness in the Dark sector?

# Fundamental dynamics

- Are there any gaps in the LHC search program?
- What do we want to know?
- How do we get it?
- Is it worth it?
- Can we do it better? Should it be done?
- What are the risks?
- What does one gain by paying the price of compositeness in the Dark sector?

Foreseen outcome of the workshop:

- heated discussions

- new collaborations and papers

\*please acknowledge MITP!