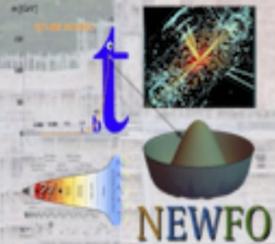
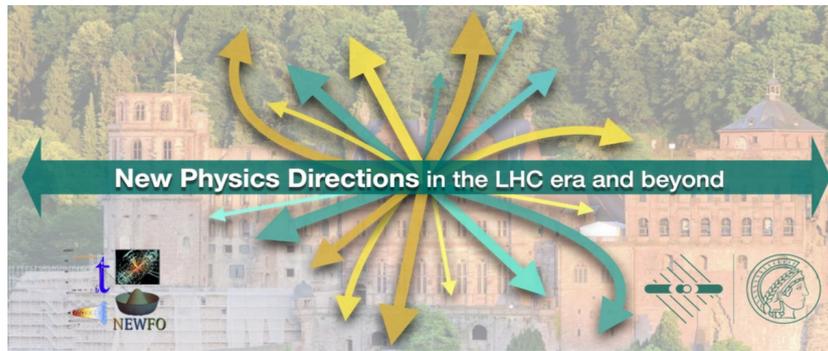


Panel Discussion



22–26 Apr 2024
Max Planck Institute for Nuclear Physics, Heidelberg, Germany



Monday April 22	Tuesday April 23	Wednesday April 24	Thursday April 25	Friday April 26
Registration + Welcome (9:10 – 10:00) <i>Invited Talks 1</i> 10:00-11:00	<i>Invited Talks 3</i> 9:30-11:00	<i>Invited Talks 6</i> 9:30-11:00	<i>Invited Talks 7</i> 9:30-11:00	<i>Invited Talks 8</i> 9:30-11:00
<i>Coffee Break</i> 11:00-11:30	<i>Coffee Break</i> 11:00-11:30	<i>Coffee Break</i> 11:00-11:30	<i>Coffee Break</i> 11:00-11:15	<i>Coffee Break</i> 11:00-11:30
<i>Invited Talks 2</i> 11:30-13:00	<i>Invited Talks 4</i> 11:30-13:00	<i>Contributed Talks 2</i> 11:30-13:00	<i>Colloquium</i> 11:15-12:15	<i>Invited Talks 9</i> 11:30-13:00
<i>Lunch</i> 13:00-14:00	<i>Lunch</i> 13:00-14:00	<i>Lunch</i> 13:00-14:00	<i>Lunch</i> 12:30-13:30	<i>Lunch</i> 13:00-14:00
<i>Invited Talk (14:00-14:30)</i>	<i>Open Discussions</i> (Seminar Room) 14:00-14:30	<i>Open Discussions</i> (Seminar Room) 14:00-15:00	<i>Open Discussions</i> (Seminar Room) 13:30-14:30	<i>Closing & Discussions</i> (Seminar Room) 14:00-15:00
<i>Lightning Talks</i> 14:30-15:45	<i>Invited Talks 5</i> 14:30-16:00	<i>Excursion</i> 15:00-18:30	<i>Contributed Talks 3</i> 14:30-16:00	All events take place at MPIK
<i>Coffee Break</i> 16:00-16:30	<i>Coffee Break</i> 16:00-16:30		<i>Coffee Break</i> 16:00-16:30	
<i>Poster Session</i> 16:30-17:30	<i>Contributed Talks 1</i> 16:30-17:30		<i>Panel Discussion</i> 16:30-17:30	
<i>Welcome Reception</i> 17:30 -		<i>BBQ Dinner</i> 17:30 -		



The objective of this meeting is to bring together scientists working on various aspects of beyond the Standard Model physics. A particular focus will be placed on a critical assessment of the current status, which features long-standing puzzles while little experimental guidance exists in the form of discoveries of new particles. Various approaches to making progress will be discussed and confronted, including the naturalness criterion, the 'agnostic' bottom-up approach, considerations related to the interplay of Standard Model puzzles, and the exploration of synergies between earth-based experiments and astro/cosmological observables. New ideas and paradigms are essential for the continued progress of fundamental physics toward a better understanding of nature.

Main topics of the workshop include:

- **Status of Naturalness**
Composite Higgs, SUSY, New Paradigms, ...
- **Interplay of SM Puzzles**
Flavour, ALPs, GUTs, ...
- **Astro-Cosmo-Collider Synergy**
Dark Matter, Phase Transitions, GWs, ...
- **Bottom-Up Approach**
EFTs, Simplified Models, ...



James D. Wells



Gudrun Hiller



Mariano Quiros



Tao Han