



BSM physics programme workshop

Tevong You



Organisers:

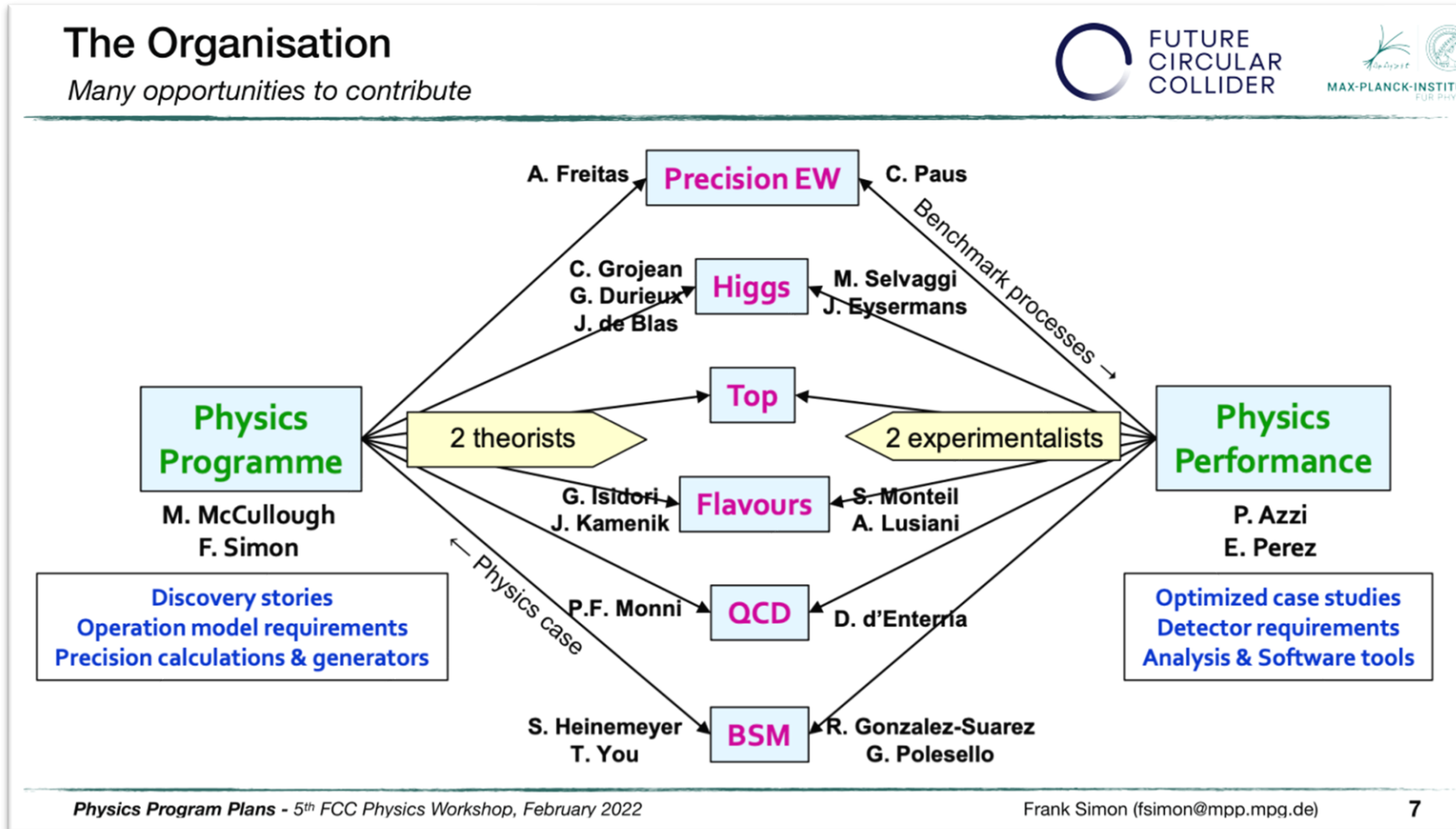
- Sven Heinemeyer and Tevong You (FCC BSM physics programme theory conveners)
- Rebeca Gonzalez Suarez and Giacomo Polesello (FCC BSM physics performance exp. conveners)

Introduction

- Still many **big open questions** beyond the Standard Model
- Answers can only come from *more exploration* into **new regimes**, not less
- FCC is a **general purpose particle observatory** for *exploring the smallest scales* at the intensity and energy frontiers
- *Wide-ranging physics programme* **guarantees progress** in particle physics and the *excitement of exploring the unknown* for future generations

Introduction

- FCC feasibility study under way, to be reviewed/completed by end of 2023/2025



Workshop goals

- Review wide-ranging BSM cases for FCC (ee+hh)
- Identify new scenarios / unique opportunities
- Highlight areas for further study
- Theory-led workshop, to be followed by more experimental workshop
 - FCC BSM e-group mailing list:

<https://e-groups.cern.ch/e-groups/EgroupsSubscription.do?egroupName=FCC-PED-PhysicsGroup-BSM>

Workshop schedule

<https://indico.cern.ch/event/1182167/timetable/>

- Thursday and Friday 9:00 – 17:30 CET
- Coffee breaks 10:30 – 11:00 and 15:30 – 16:00
 - (served in TH common room)
- Lunch break 12:00 – 14:00
 - (Free time 14:00 – 15:30 on Thursday)
- Informal social at 18:00 in Restaurant 1