

UK Involvement

7th FPF Meeting

1/3/2024







Imperial College London











FPF UK | Existing involvement



- ▶ FASER and SND@LHC running successfully with UK involvement and leadership.
 - Providing proof-of-principle for FPF



- FASER2: Physics exploitation, detector construction in the area of colorimeter, tracking and infrastructure
- FLArE: Interest in optical readout from Liverpool (as shown in slides by Steve yesterday)
- ▶ Beam simulation: BDSIM, neutrino fluxes
- Theory: Astro-particle, Generators, BSM
- Next step is to formalise, and ideally increase, UK participation
 - Led to UK FPF meeting...













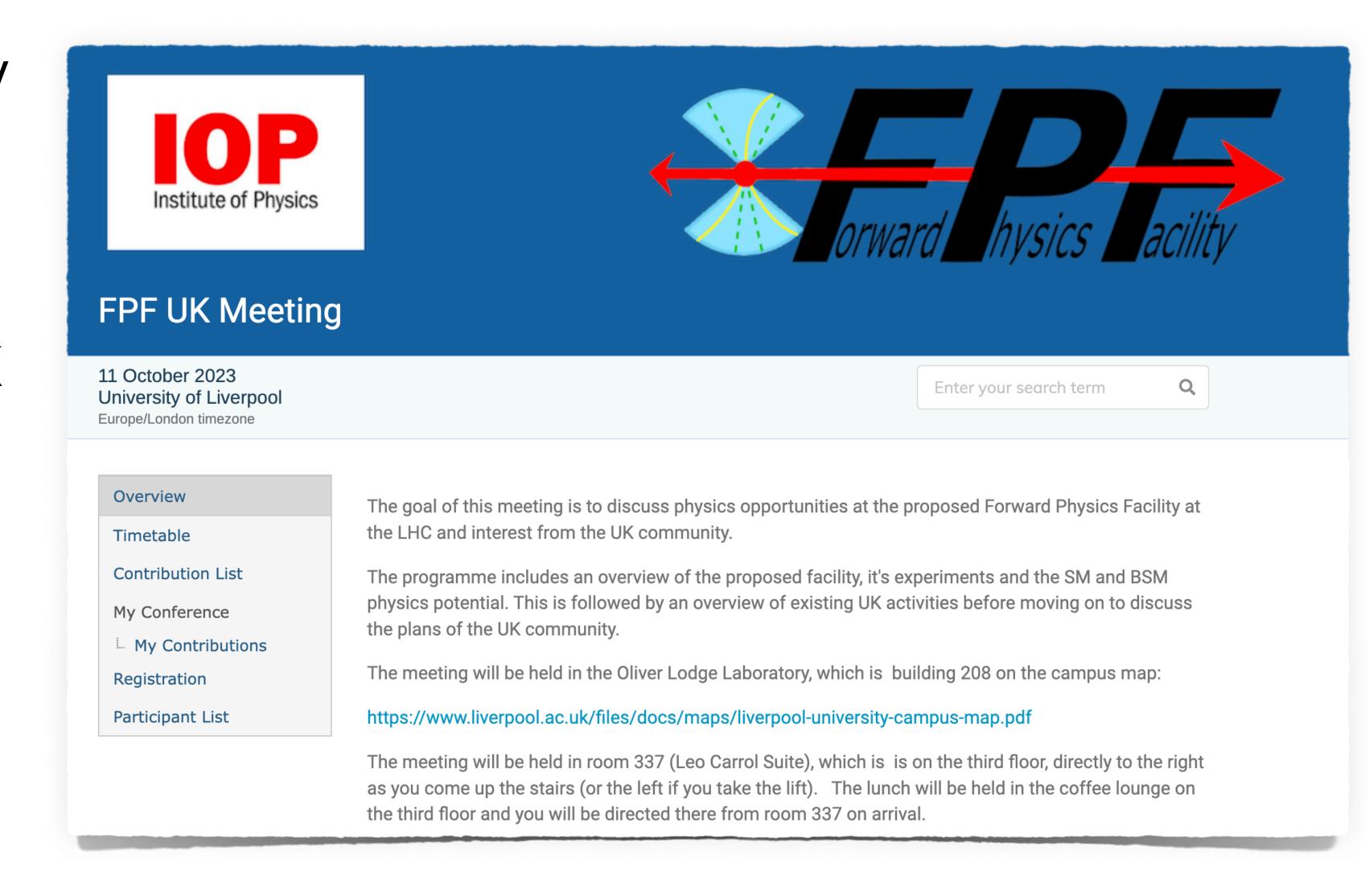








- Particle Physics Advisory
 Panel meeting in July
 - Significant interest in FPF
- Led to dedicated FPF UK meeting in October
- Significant interest and participation
 - Over 10 institutes
 - ~35 people







- Recent Consolidated Grant (next 4-years) submissions in the UK
 - Dedicated experimental submission on FASER
 - Ambitions to work on FPF expressed, with links to existing DRD projects
- ▶ Planning submissions to the main particle physics funding body: STFC
 - There are different avenues to raise FPF with STFC:
 - Examples are "Visions"/"Statement of Interest" schemes
 - ▶ They target: "early-stage concepts with potential to be developed into ambitious initiatives/infrastructures" and "participation in new experiments or missions".
- Timeline driven by timescale for FPF LoI to CERN in early 2025
 - ▶ Plan is to make submission to STFC in the next months, not much later than the timescale of the PBC update document
 - ▶ Had been waiting for P5 and North Area decisions before submission
 - Statements of Interest are reviewed in quarterly Science Board meetings