

Session Program

10-13 Dec 2023



I.FAST Workshop on GHz Rate & Rapid Muon Acceleration for Particle Physics

Muons

Bern, Switzerland, Vatter Business Center
Bärenpl. 2 3011 Bern Switzerland

Tuesday 12 December

09:00

Muons: Muon Acceleration at the Energy Frontier

Session | **Location:** Bern, Switzerland, Vatter Business Center, Bärenpl. 2 3011 Bern Switzerland | **Convener:** Alexander Pukhov

09:00–09:40

Muon colliders: applications in high energy physics

Speaker

Vladimir Shiltsev

09:40–10:20

Muon storage ring and colliders - Beam parameters and acceleration requirements

Speaker

Daniel Schulte

12:30

14:00

Muons: Plasma wakefield accelerators for muons

Session | **Location:** Bern, Switzerland, Vatter Business Center, Bärenpl. 2 3011 Bern Switzerland | **Convener:** Witek Krasny

14:00–14:25

On PFA based muon sources

Speaker

Vladimir Shiltsev

14:25–14:55

Preliminary thoughts on plasma-based muon acceleration

Speaker

Prof. Alexander Pukhov

14:55–15:25

Simulations of a plasma wakefield accelerator for pions and muons

Speaker

Dr Chiara Badiali

17:00