

**Session Program**

**29 May 2017 to 2 June 2017**

**FCC Week 2017**

***FCC-hh machine design***

Intercontinental Hotel  
Budapester Str. 2, 10787 Berlin, Germany

## Tuesday 30 May

08:30

### FCC-hh machine design: Review: design (1)

Session | Location: "Pavillon" | Convener: Roy Aleksan

08:30–08:45 **Parameters and layout**

**Speaker**

Daniel Schulte

08:45–09:10 **Arc design and lattice integration**

**Speaker**

Dr Antoine Chance

09:10–09:35 **Experimental insertions**

**Speaker**

Andrei Seryi

09:35–10:00 **Injections and extraction insertions and dump lines**

**Speaker**

Florian Burkart

10:00

10:30

### FCC-hh machine design: Review: design (2)

Session | Location: "Pavillon" | Convener: Francesco Cerutti

10:30–10:52 **Betatron collimation system insertions**

**Speaker**

Andy Sven Langner

10:52–11:14 **Energy collimation system insertions**

**Speaker**

Dr Angeles Faus-Golfe

11:14–11:36 **Longitudinal dynamics and RF requirements**

**Speaker**

Elena Shaposhnikova

11:36–11:58 **Ion considerations**

**Speaker**

Michaela Schaumann

12:00

13:30

### FCC-hh machine design: Review: Beam performance and specifications

Session | Location: "Pavillon" | Convener: Mauro Migliorati

13:30–13:55 **Dynamic aperture and alignment**

**Speaker**

Barbara Dalena

13:55–14:15 **Impedances and electron cloud**

	<p><b>Speaker</b> Oliver Boine-Frankenheim</p>
	<p>14:15-14:35 <b>Beam-beam effects</b></p> <p><b>Speaker</b> Tatiana Pieloni</p>
<p>15:00</p>	<p>14:35-14:55 <b>Instrumentation overview and challenges</b></p> <p><b>Speaker</b> Laurette Ponce</p>
<p>15:30</p>	<p><b>FCC-hh machine design: Review: Injectors</b>  <b>Session</b>   <b>Location:</b> "Pavillon"   <b>Convener:</b> Peter-Jurgen Spiller</p>
	<p>15:30-15:55 <b>LHC as 3.3 TeV HEB</b></p> <p><b>Speaker</b> Wolfgang Bartmann</p>
	<p>15:55-16:15 <b>scSPS as 1.3 TeV HEB</b></p> <p><b>Speaker</b> Florian Burkart</p>
	<p>16:15-16:35</p> <p><b>3.3 TeV beam injection into combined experimental and injection FCC machine insertions</b></p> <p><b>Speaker</b> Michael Hofer</p>
<p>17:00</p>	<p>16:35-16:55 <b>Impact of injection energy on collider design</b></p> <p><b>Speaker</b> Dr Antoine Chance</p>

## Wednesday 31 May

08:30

### FCC-hh machine design: SppC and selected topics

**Session** | **Location:** "Tiergarten I-II-III" | **Convener:** Angeles Faus-Golfe

08:30–08:55 **SppC study progress**

**Speaker**

Jingyu Tang

08:55–09:15 **SppC collimation study**

**Speaker**

Jianquan Yang

09:15–09:35 **Use of electron lenses in FCC-hh**

**Speaker**

Vladimir Shiltsev

09:35–09:55 **Implications of 5 ns bunch spacing for the injector chain**

**Speaker**

Elena Shaposhnikova

10:00

10:30

### FCC-hh machine design: Selected topics

**Session** | **Location:** "Tiergarten I-II-III" | **Convener:** Oliver Boine-Frankenheim

10:30–10:40 **Correction schemes for the interaction region of FCC-hh**

**Speaker**

Emilia Cruz Alaniz

10:40–10:50

**Exploring the triplet parameter space to optimise the final focus of the FCC**

**Speaker**

Leon Van Riesen-Haupt

10:50–11:00

**Cross-talk simulations between FCC-hh experimental interaction regions**

**Speaker**

Haroon Rafique

11:00–11:10

**Simulation of the FCC-hh double crystal-based collimation system**

**Speaker**

Alexei Sytov

11:10–11:20

**Dispersion suppressor protection**

**Speaker**

Mr Alexander Krainer

11:20–11:30

**Alignment and beam-based correction**

**Speaker**  
David Jean Henri Boutin

11:30-11:40 **Importance of the surface resistivity for the impedance model**

**Speaker**  
Sergey Arsenyev

11:40-11:50 **Landau damping of intra-bunch oscillations**

**Speaker**  
Vladimir Kornilov

11:50-12:00 **FCC-hh electron cloud**

**Speaker**  
Lotta Mether

12:00