

# eeFACT 2025 - 70th ICFA Advanced Beam Dynamics Workshop on High Luminosity Circular e<sup>+</sup>e<sup>-</sup> Colliders



Contribution ID: 83

Type: **Invited Oral Presentation**

## B and tau physics at e<sup>+</sup>e<sup>-</sup> colliders

The Belle II experiment at the SuperKEKB energy-asymmetric  $e^+e^-$  collider is a substantial upgrade of the  $B$  factory facility at the Japanese KEK laboratory. Since the year 2019, Belle II has recorded close to  $600 \text{ fb}^{-1}$  at the center-of-mass energy of the  $\Upsilon(4S)$  resonance. Together with the Belle data set, this is by far the world-largest sample of electron positron collision events at the  $B\bar{B}$  threshold and allows measurements in the heavy flavour sector with unprecedented precision.

In this presentation, we will review the status of the Belle II experiment and showcase new results on  $B$  meson and  $\tau$  lepton decays.

### Footnotes

### Funding Agency

### I have read and accept the Privacy Policy Statement

Yes

**Primary author:** SCHWANDA, Christoph (Austrian Academy of Sciences)

**Presenter:** SCHWANDA, Christoph (Austrian Academy of Sciences)

**Session Classification:** Physics

**Track Classification:** WG2 : Physics