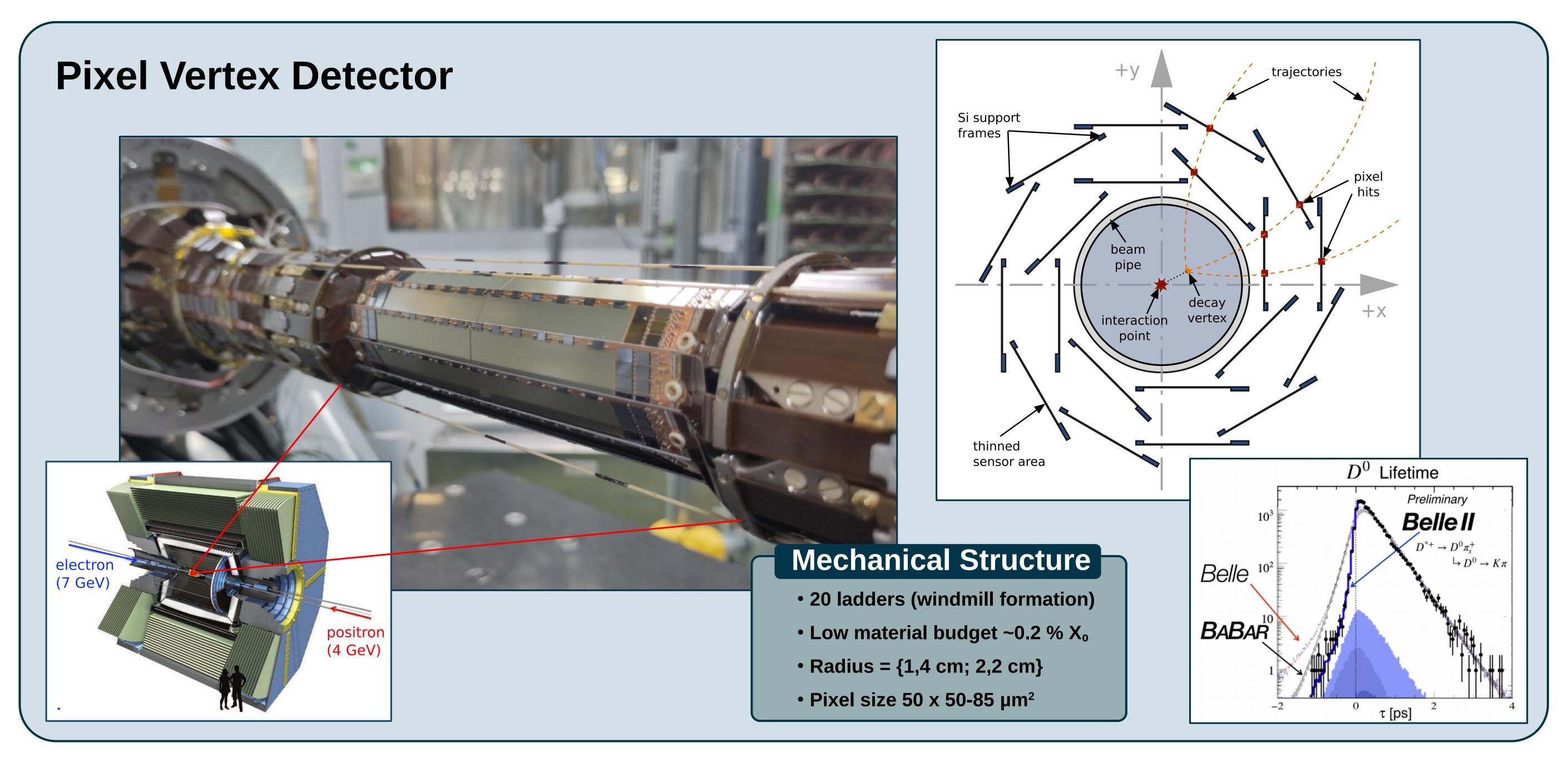
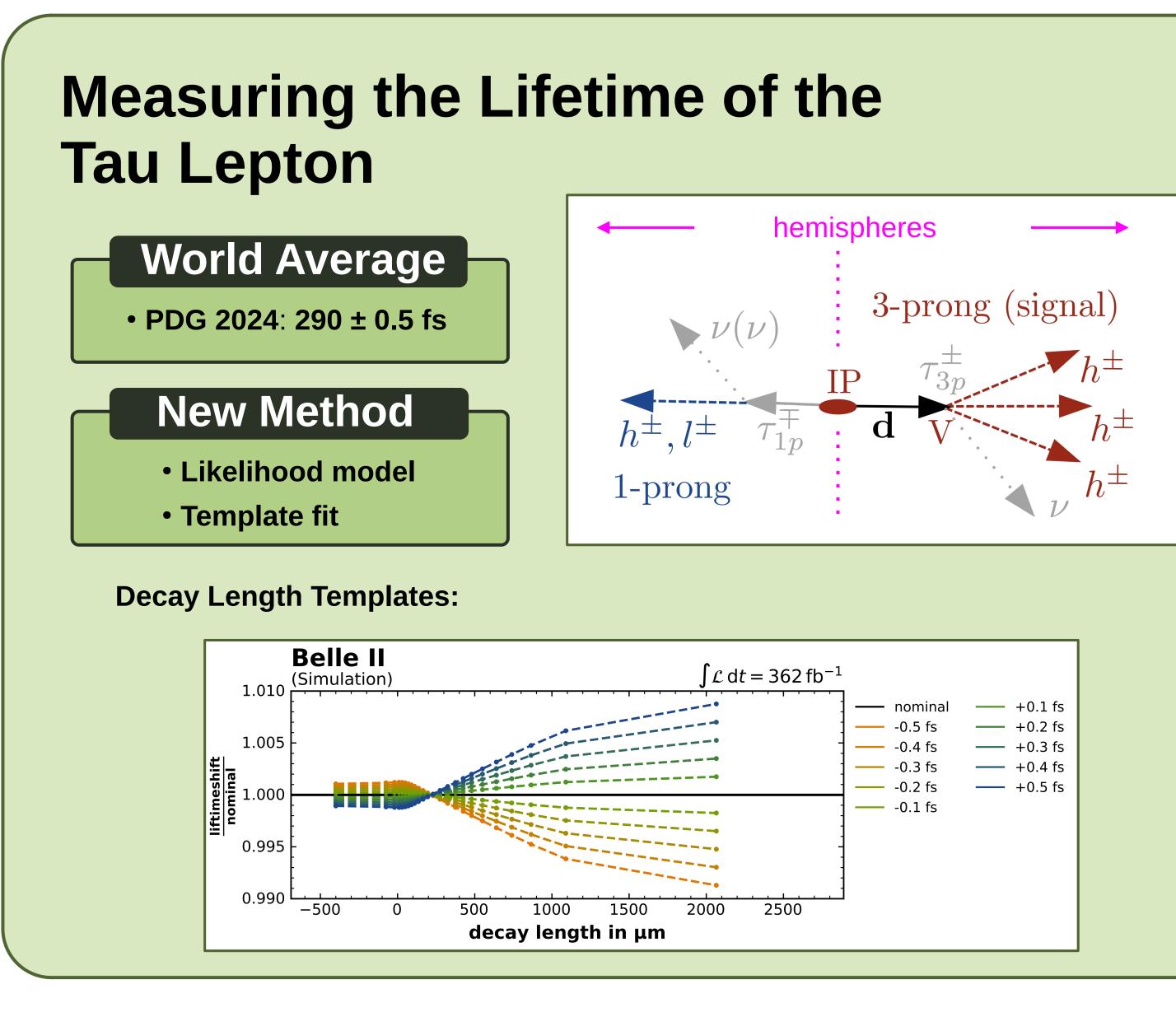
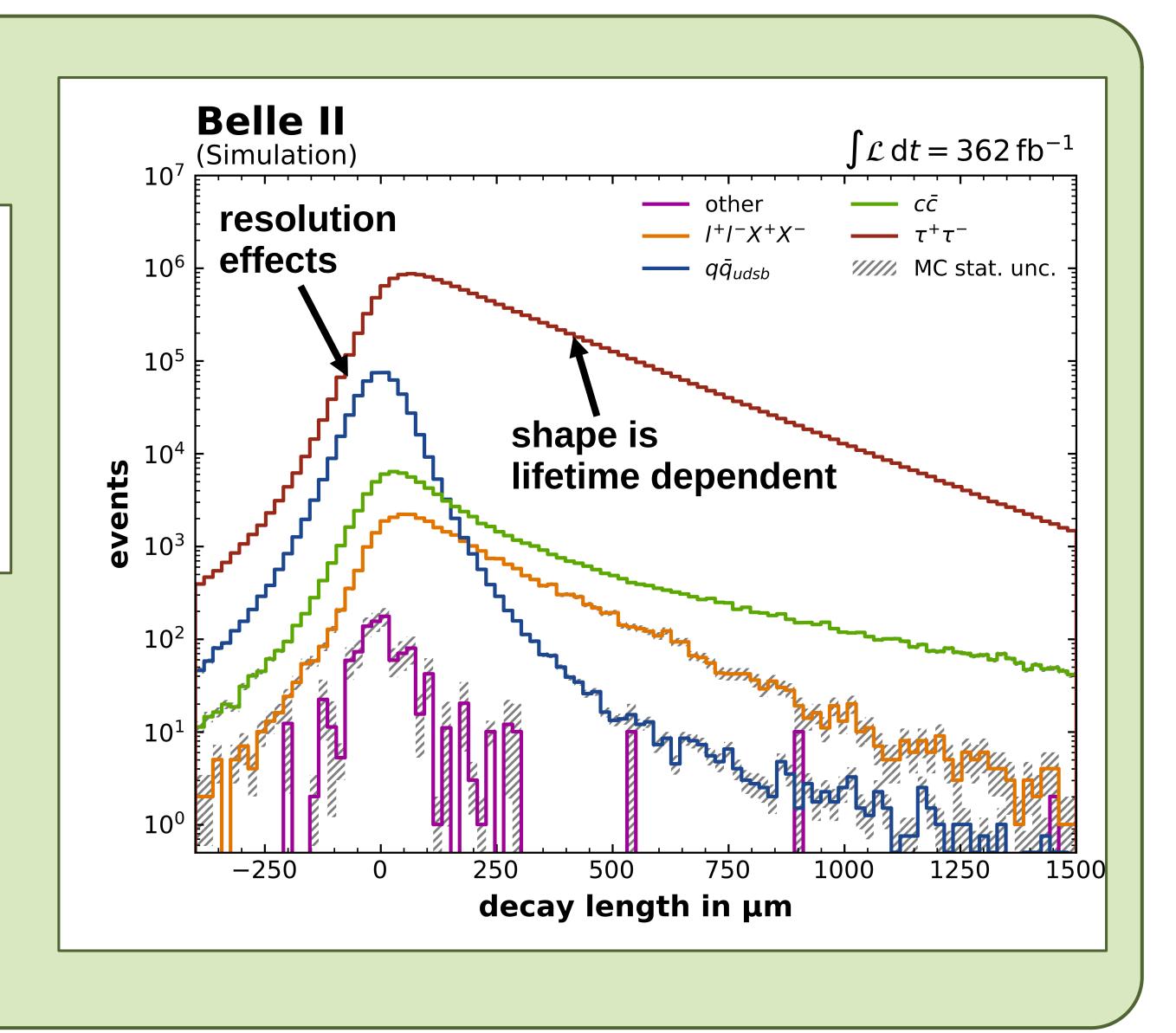
Topic: Higgs and Fundamental Interactions at High Precision

Tau Lepton Lifetime Measurement & Pixel Vertex Detector at Belle II







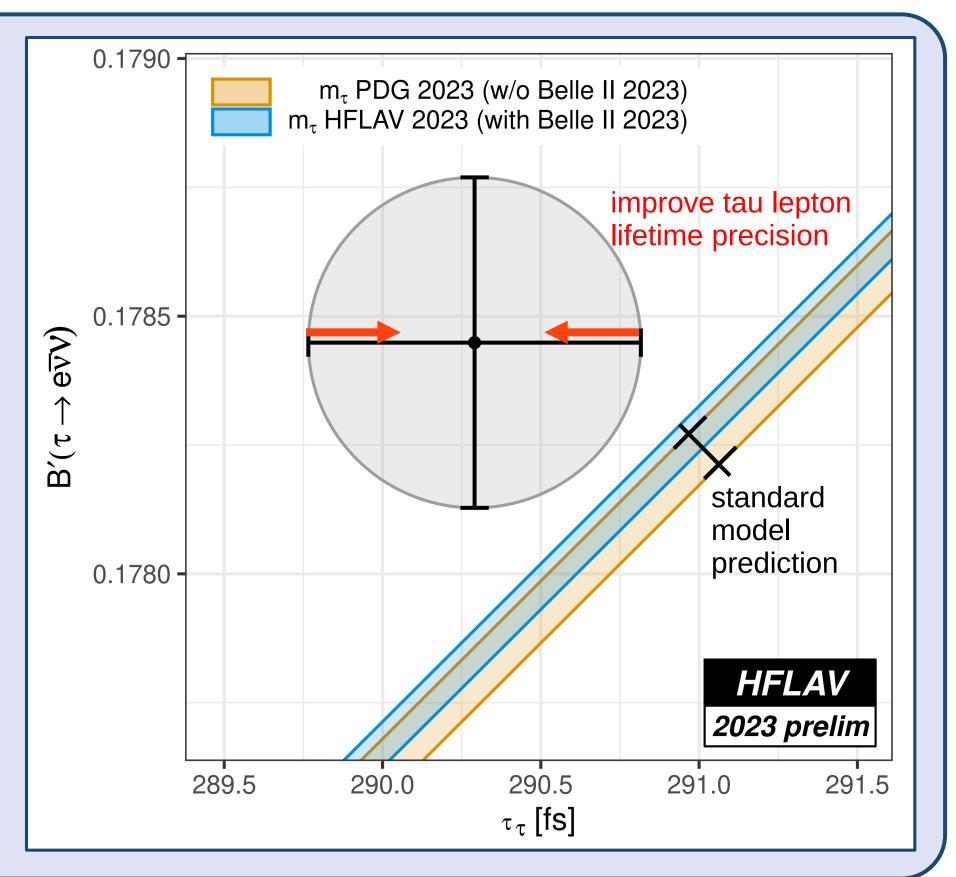
Do All Leptons Have the Same Coupling to the W Boson?

Standard Model

Branching fraction:

$$B_{ au e} \propto B_{\mu e} rac{ au_ au}{ au_\mu} rac{m_ au^{f 5}}{m_\mu^{f 5}}$$

Proportionality factor



Anselm Baur

- 4th year PhD student
- Mechanical and working point optimization of PXD2
- Commissioning of PXD2
- New method for the tau lepton lifetime measurement

