

## **Fundamental Interactions, Particle and Nuclear Physics**

Conveners: Barbara Clerbaux (ULB), Freya Blekman (VUB), Forum-E

14:30 – 15:10 Invited talk: **Gudrun Hiller** (University of Dortmund, Germany)  
[Flavor physics as a window to new physics](#)

15:10 – 15:30 **Luca Mantani** (UCLouvain)  
[Top-quark electroweak interactions at high energy](#)

15:30 – 15:50 **Vandecasteele Jérôme** (ULB)  
[Feebly Interacting Dark Matter through the Kinetic Mixing Portal](#)

15:50 – 16:10 **Sam Junius** (VUB & ULB)  
[A feeble window on leptophilic dark matter](#)

16:10 – 16:30 **Tom Cornelis** (UGent)  
[Search for heavy neutral leptons with the CMS detector](#)

16:30 – 16:50 **Coffee break**

16:50 – 17:10 **Aleksandra Lelek** (UAntwerpen)  
[The Parton Branching method: new precision level in collider predictions](#)

17:10 – 17:30 **Cintia Willemyns** (UMons)  
[Baryon spectrum in the large  \$N\_c\$  limit](#)

17:30 – 17:50 **Iaroslav Meleshkovskii** (SCK-CEN & ULB)  
[An artificially intelligent look on the uranium enrichment determination problem using X- and gamma-ray spectroscopy: introducing a new isotopic code CAMILA for CZT and LaBr<sub>3</sub>\(Ce\)](#)

Posters:

FI-01-C **Lissa Keersmaekers** (UAntwerpen)  
[The Parton Branching method for transverse momentum dependent parton densities](#)

FI-02-C **Elizabeth Rose Starling** (ULB)  
[GEI/I Sustained Operations Investigations](#)