



# GIREP-EPEC

Transforming physics learning via Research & Practice  
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## **Error and Uncertainty: An Incoherent Hybrid in French High School Education**

*Thursday 3 July 2025 09:40 (20 minutes)*

The Bureau International des Poids et Mesures plays a central role in standardizing metrology. Thirty years ago, it shifted its approach to measurement, moving away from the concept of true value and error toward a framework in which a measurement result is represented as a set of possible values. The transposition of the international standard into secondary education is currently underway. In this study, we analyse the official French physics syllabus and corresponding high school textbooks. While curricula fully align with international standards, textbooks often mix the two approaches inconsistently, resulting in a lack of conceptual coherence.

### **Education level**

Age 15-18 (Secondary education)

### **Physics topic**

Full curriculum

### **Research focus**

Lab course design

### **Research method**

Mixed method (qualitative & quantitative)

### **Organizing preference criteria**

Physics topic

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**Session Classification:** Parallel oral presentations

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