



Contribution ID: 50

Type: **Oral presentations**

## **Cultural understanding of quantum physics through a historical and pedagogical reconstruction of Old Quantum Theory and early Quantum Mechanics**

*Monday 26 August 2024 13:20 (20 minutes)*

In a society where technological applications risk overshadowing the true essence of physics, understanding historical and epistemological aspects becomes crucial for a meaningful and cultural introduction to quantum physics (QP). In this sense, we believe that exclusively presenting Quantum Mechanics (QM) when introducing QP (especially at high school) may prove insufficient, and we emphasize the importance of dealing also with the Old Quantum Theory, as it provides insights into the cultural relevance of QM, facilitates a deeper reflection on the Nature of Science, and aids also in understanding the physics-related QM problems. In this presentation we will discuss these aspects.

### **How would you like to present your contribution?**

Hybrid from my own country (early in the conference day, best for Asia, Australia)

### **Target education level**

Secondary

### **Category**

Formal Education

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