



2nd Viperlab Workshop May-24, 2023 9:00-12:00 CEST on Precise Measurement of Perovskite Silicon Tandem Solar Cells

In conjunction with its 2nd Annual Assembly, the VIPERLAB project proposes this hybrid event with the involvement of HZB, AIT, Fraunhofer ISE, EPFL, UniTOV, ENEA, which is based precisely on the needs and **advantages of a standardized and homogeneous approach** for regarding device characterization and processing, **overview of measurement principles and differences from standard silicon solar cell calibration, good practices for measuring tandem devices** at the laboratory level and will conclude with a **presentation of Viperlab activities in characterization and standardization, external monitoring of single and tandem devices** and **fabrication of mechanically stacked 2T** perovskite tandem devices

 [More info](#)

Part I Introduction

- 9:00 9:10 Welcome and Chairing**
- **Welcome and presentation of the agenda** (Franco Roca, ENEA)
 - **VIPERLAB Project Introduction** (Natalia Maticiuc, HZB)
- 9:10 9:20 Homogenization and standardization: needs and benefits**
(Stephan Abermann, AIT)

Part II Characterisation of single and tandem perovskite devices

- 9:20 9:45 Calibration of tandem solar cells at Fraunhofer ISE** (Martin Schubert, Fraunhofer ISE)
- 9:45 10:10 Good practices to measure tandem devices in a lab** (Christian Wolff, EPFL)

10:10 10:25 Q&A part II

Coffee break

Part III Other tandem-related activities in VIPERLAB

- 10:40 11:05 Outdoor monitoring of single and tandem perovskite devices at HZB**
(Mark Khenkin, HZB)
- 11:05 11:30 Investigation of 2T mechanically stacked tandem**
(Aldo Di Carlo, Uni Tor Vergata)
- 11:30 11:40 Tandem infrastructures and other tandem-related activities in VIPERLAB**
(Natalia Maticiuc, HZB)

11:40 12:00 Q&A part III and final discussion