

4th Perovskite Workshop Baden-Württemberg

October 2, 2025
10:00 a.m. – 06:00 p.m.



Program

Location: ZSW Stuttgart, Meitnerstr. 1, 70563 Stuttgart

Time	Presentation Title / Program Point	Speaker
10:00 – 10:10 a.m.	Welcome Address	Prof. Dr. Michael Powalla Prof. Dr. Ulrich Paetzold Prof. Dr. Michael Saliba Prof. Dr. Stefan Glunz
Perovskite Single and Multi-Junction Solar Cells and Modules		
10:10 – 10:30 a.m.	Upscaling of Perovskite Thin Films	Dr. Eva-Maria Hammer (ZSW)
10:30 – 10:50 a.m.	Toward Efficient and Stable Perovskite Tandem Solar Cells	Dr. Steve Albrecht (Helmholtz-Zentrum Berlin)
10:50 – 11:10 a.m.	Molecular Orientation and Dipole Moment Matter: Defect Passivation Strategies for Perovskite Photovoltaics	Dr. Somayeh Gholipour (Universität Stuttgart, ipv)
11:10 – 11:40 a.m.	Coffee Break	
Wafer Based Perovskite Tandems		
11:40 a.m. – 12:00 p.m.	Enhanced Optoelectronic Coupling in Perovskite-Silicon Tandem Solar Cells: Towards Record-Efficient Lab-Scale Devices	Dr. Erkan Aydin (LMU München)
12:00 – 12:20 p.m.	Enhancing the Stability of Perovskite/Si Tandem PV	Dr. Renjun Guo (KIT)
12:20 – 12:40 p.m.	Advances in Fully-Textured Perovskite/Silicon Tandem Solar Cells	Dr. Patricia Schulze (Fraunhofer ISE)
12:40 – 01:40 p.m.	Lunch Break and Group Photo	

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Upscaling / Process Technologies		
01:40 – 01:55 p.m.	Advancing Perovskite-Silicon Tandem PV at Swift Solar: Performance, Stability, and Scalability	Dr. Tobias Abzieher (Swift Solar)
01:55 – 02:10 p.m.	From Single Wafer Level to GigaWatt Manufacturing – Scalable Vacuum Deposition Technology for Perovskite Tandem PV	Martin Fischer (VON ARDENNE GmbH)
02:10 – 02:25 p.m.	Perovskite-CIGS Thin-Film Tandem Module R&D at AVANCIS	Dr. Thomas Dalibor (AVANCIS GmbH)
02:25 – 02:40 p.m.	How Solar Cells Endure Space	Dr. Wolfgang Guter (AZUR SPACE Solar Power GmbH)
02:40 – 02:55 p.m.	Equipment and Strategies for Fast and Precise Pero-Si Tandem Device Measurements	Dr. Klaus Ramspeck (halm elektronik gmbh)
02:55 – 03:30 p.m.	Coffee Break	
03:30 – 03:45 p.m.	Industrialization Progress of Perovskite–Silicon Tandem Solar Cells, with a Focus on China	Dr. Kaining Ding (FZ Jülich)
03:45 – 04:00 p.m.	Advancing Si-Perovskite Tandem Technology through a Machine Learning Approach	Dr. Pietro Caprioglio (Hanwha Q CELLS GmbH)
04:00 – 04:15 p.m.	<i>Working Title: Upscaling Photovoltaics</i>	Dr. Maximilian Krause (Singulus Technologies AG)
04:15 – 04:30 p.m.	Advancing Tandem Cell and Module Characterization: Insights from Eternal Sun & WVELABS	Dr. Bernhard Mitchell (WVELABS Eternal Sun GmbH)
04:30 – 05:00 p.m.	Final Discussion	Prof. Dr. Powalla, Prof. Dr. Paetzold, Prof. Dr. Saliba, Prof. Dr. Glunz
05:00 – 06:00 p.m.	Lab Tour ZSW	