Thursday, 16th June 2022

9:00 – 9:50	***Registration & Coffee***	
9:50 – 10:00	**Opening of the workshop** *Marko Topič & Rutger Schlattman*	
	Session I, *Chairman: Marko Topič*	
10:00 – 10:45 PLENARY	Ralph Gottschalg Fraunhofer CSP, Halle (Saale), Germany	What value can artificial intelligence add to PV system diagnostic?
10:45 – 11:30 INVITED	Atse Louwen EURAC, Bolzano, Italy	The role of digitalization in advanced O&M of PV
11:30 – 11:45	Darjo Uršič Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	Indoor monitoring for PV powered IoT
11:45 – 12:00	Žan Ajdič Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	Progress of perovskite solar cells at LPVO
12:00 – 13:30	***Lunch break***	
	Session II, *Chairman: Ralph Gottschalg*	
13:30 – 14:00	Marko Jankovec Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	LPVO solutions for advanced PV monitoring
14:00 – 14:15	Milan Kovačič Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	Reduced graphene oxide in solar cells
14:15 – 14:30	Marko Remec Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	WLED monitoring setup for research perovskite solar cells
14:30 – 14:45	Saša Sladić Faculty of Engineering Rijeka, Croatia	Silicon Carbide Benefits for PV and Automotive Applications
14:45 – 15:30	***Coffee break***	
	Session III	
15:30 – 15:45	Marko Jošt Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	Bichromatic LED setup for advanced characterization of tandem solar cells
15:45 – 16:00	Martin Ledinsky Institute of Physics, Prague, Czech Republic	Mapping the Transport Paths in Silicon Passivating Contacts with Conductive AFM Tomography
16:00 – 16:15	Jure Pušnjak Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	TCAD modelling of solar cells
16:30 – 18:00	**LPVO monitoring PV tour**	
19:00 – 21:00	***LPVO floating PV tour,*** *Location: Ljubanica river*	

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8:45 – 9:15	*Coffee break*	
	Session IV, *Chairman: Marko Jankovec*	
9:15 – 10:00 PLENARY	Steve Albrecht TU Berlin/HZB, Berlin, Germany	Perovskite tandems in competition for record efficiencies
10:00 – 10:45 PLENARY	Antonin Fejfar Czech Academy of Sciences, Prague, Czech Republic	Great expectations for photovoltaic energy resources
10:45 – 11:15 INVITED	Carolin Ulbrich HZB, Berlin, Germany	PV monitoring and big data at HZB
11:15 – 11:30 INVITED	Pierre-Jean Alet CSEM, Neuchâtel, Switzerland	High-resolution intraday forecasts of PV production with advanced machine-learning architectures
11:30 – 11:45	*Coffee break*	
11:45 – 12:00	Kristijan Brecl Univ. of Ljubljana, Fac. of. Elec. Eng., Ljubljana, Slovenia	PV system performance assessment by TDP model
12:00 – 12:15	Julián Ascencio-Vásquez ASVA Consulting, Santa Cruz de Tenerife, Spain	Hybrid data-driven techniques to optimize PV fleet energy yield
12:15 – 12:30	Guillermo Oviedo Hernandez BayWa r.e., Rome, Italy	NB-IoT/5G wireless retrofit approach for PV monitoring
12:30 – 13:30	*Lunch break*	
	Session V, *Chairman: Antonin Fejfar*	
13:30 – 13:45	Paolo Graniero HZB, Berlin, Germany	Machine Learning on Perovskite Stability Data: Critical Issues in Current Shared Databases
13:45 – 14:00	Florian Scheler HZB, Berlin, Germany	Design principles for constructing the ideal interface: a perovskite/C60 case study
14:00 – 14:15	Aleš Vlk Institute of Physics, Prague, Czech Republic	Urbach energy and defect formation during the halide perovskite growth
14:15 – 14:30	Mark Khenkin HZB, Berlin, Germany	Correlating Indoor and Outdoor Degradation in Perovskite Solar Cells
14:30 – 14:45	Bor Li HZB, Berlin, Germany	Up to 1.94 V open-circuit voltage in highly efficient perovskite/silicon tandem solar cells using polymeric interlayers in the top contact
14:45 – 15:00	**Closing remarks,** *Marko Topič & Rutger Schlattman*	

15:30 – 18:00	**TAPAS Meeting** *For project members*
	WP progress report
	WP action plan 2022
	Dissemination & Management