

Program of
Workshop on Physical Layer Security for Wireless Networks
Venue: Dresden Convention Center (Messe Dresden), Germany

Date	Session	Slot	Description	Presenters/Coordinator/Notes
Wednesday, 14 May	Welcoming	11:00-11:05	Welcome/Brief on CA22168	Thuy Pham
	Keynote	11:05-11:50	Title: Security threats and solutions at the PHY of 6G systems Abstract: Sixth generation (6G) networks are expected to become even more pervasive in our lives and to play a key role in several new application contexts (from supporting industrial applications to ubiquitous communication even over satellite links). In such a context, the security of 6G networks should be maintained at all communication layers, also to withstand new threats from quantum-based security attacks. The talk will provide an overview of the solutions offered by physical layer security in 6G networks, as well as shed light on specific security threats against 6G networks originating from the physical layer. The evolution of research and innovation on this topic is now mature enough to become a reality in 6G standards as well as in other communication contexts, thanks to its effectiveness and reduced complexity.	Stefano Tomasin, Coordinator: Pin-Hsun Lin
	Panel	11:50-12:40	Title: Toward Secure 6G: Evaluating the Security Potential of the Physical Layer Abstract: This panel explores the critical role of the physical layer in shaping the security landscape of next-generation 6G networks. As 6G aims to deliver unprecedentedly high data rates, ultra-reliable low-latency communication, and massive machine-type communication, ensuring robust security at the physical layer is of paramount importance. Leading experts will examine emerging physical layer security techniques and assesses their potential to mitigate emerging threats. The discussion will also address challenges in implementing scalable, efficient, and resilient physical layer security solutions within the 6G networks. By evaluating the security potential in physical layer technologies, this panel aims to envision more secure and trustworthy 6G communications.	Panelists: Sumei Sun, Slawomir Stanczak, Rafael Schaefer, Angeliki Alexiou Coordinator: Stefan Köpsell
	Lunch	12:40 onwards		