Pozvánka na seminár Ústavu experimentálnej fyziky SAV, v. v. i.

štvrtok, 9. október 2025 o 9:30

Aula ústavov SAV, Watsonova 47, Košice

„Thermodynamics of quantum materials“

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Anotácia:
Christophe Marcenat was honored with **the 2025 International Prize in Natural Sciences from the Slovak Academy of Sciences**. The award ceremony took place on September 24, 2025, at the Primatial Palace in Bratislava. This prize recognizes not only an exceptional scientific career, but also a great success in European scientific cooperation. He has contributed significantly to the advancement of unique microcalorimetry methods, enabling the study of materials under extreme conditions: at ultra-low temperatures, under high pressure, and in intense magnetic fields. His excellent scientific work as well as his innovative research leads to the discovery of superconductivity in doped silicon, the element that forms the basis of today's semiconductor electronics. His close collaboration with the Institute of Experimental Physics at SAS in Košice, which began with research on superconducting magnesium diboride (MgB_2), has lasted for more than two decades. This Franco-Slovak collaboration has been supported by a European Marie Curie program (Transfer of Knowledge), as well as by bilateral projects within the framework of the Hubert Curien Partnership (PHC) Štefánik, which aims to strengthen scientific exchanges between the two countries and encourage the involvement of young researchers and doctoral students. Several of them completed part of their studies in the renowned laboratories in Grenoble and also benefited from Christophe Marcenat's skills and knowledge. Recently, this fruitful cooperation has been reinforced by the Horizon 2020 project entitled “European Microkelvin Platform,” which aims to create a European research infrastructure in the field of ultra-low temperature and ultra-sensitive measurement techniques, with a particular focus on quantum technologies and materials.