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WG4: Low-energy high-precision experiments bridging quantum and gravity

Tuesday 8 July 2025 09:00 (50 minutes)

Working Group 4 (WG4) of the BridgeQG COST Action is dedicated to exploring how low-energy, high-precision experiments can offer unique insights into the relation between quantum physics and gravity. While high-energy approaches seek to probe gravity at the Planck scale, WG4 focuses on tabletop experiments to test predictions from quantum mechanics and General Relativity, including theories and models of Quantum Gravity. By bringing together expertise from theory experimental physics, WG4 aims to identify promising experimental platforms, develop new synergies, and connect measurable effects to quantum gravity models. This talk presents WG4's objectives, current landscape, and opportunities for cross-disciplinary collaboration within the broader BridgeQG community.

Working Group

WG4 - Low-energy high-precision experiment

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