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Bridging the Scientific and the Commercial Quantum World: attocube systems AG Receives the Quantum Effects Award 2024

On October 8, 2024 attocube systems AG has been honored with the Quantum Effects Award. The award celebrates outstanding innovations that bridge the traditional and the quantum world, significantly driving forward the commercial use of quantum technologies. The prize in the category 'Quantum Communication & Networks' has been awarded to attocube's groundbreaking attoCMC system, recognizing its potential to advance quantum technologies in industrial applications.

Many photon-based quantum applications face a common challenge: To generate, control, and 'utilize' quantum states, cryogenic cooling is essential. However, the existing supply chain still shows a significant gap between commercially available offerings for cryogenic cooling and the actual needs of the rapidly growing quantum industry. To provide scalable and affordable solutions, properly sized cryogenic systems with assets such as low energy consumption, mobility, and transportability are key.

attocube's CMC ('Compact Mobile Cryogenics') line offers – for the first time ever - an ultra-compact, autonomous 19" cryostat system, characterized by high efficiency and mobility. "We are delighted to receive this award. It confirms our ability to fast-track innovation and commercialization across the emerging quantum supply chain" states Peter Kraemer, CEO at attocube systems AG. "Our longstanding experience and the collaboration between academia, industry, and government entities enabled an agile, user-oriented development approach and guaranteed the fast and successful market launch."

The ultra-compact 19" attoCMC is the world's first and only system that operates on low power consumption (1kW) at a base temperature of 2.3 K without the need of cooling water and additional laboratory infrastructure. This liberates the user from previous severe constraints in terms of space and energy costs and makes the technology accessible for a broad user community.

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Pictures:



1. *Award ceremony (from left to right): Dr. Sebastian Schaile (Senior Manager Strategic Marketing CMC), Dr. Daniel Stadler, Dr. Volkmar Denner, and Dr. Claudio Dal Savio (Head of Product Line CMC) at the award ceremony in Stuttgart*



2. *attoCMC: compact, rack mountable cryostat system combining the IGLU compressor (below) with a high-performance 2.3 K cryostat (above)*

about attocube systems AG:

The attocube systems AG was founded in 2001 and is recognized for innovation and excellence in the development, the production, and the distribution of cutting-edge components and solutions for nanoscale applications in research and industry. The portfolio includes nanopositioners, an ultra-precise displacement sensor, low-vibration cryostats, as well as scanning probe and nanoscale imaging & spectroscopy systems, all compatible with extreme environmental conditions.

All products are being developed and manufactured at the company's headquarters in Haar near Munich. An international team of physicists, mechanical engineers and product designers closely cooperates from the conception to the delivery of products. attocube has sales offices in the US and a broad network of worldwide distributors, covering more than 40 countries.

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