



World-leading artists and quantum technologists join Kipu Quantum for pioneering the revolution in quantum arts

Munich, October 1st 2021. Kipu Quantum, a Munich-based quantum computing startup, announced today that it will join forces with a world-class team of quantum artists and technologists to develop quantum arts. Effective immediately, Eduardo Miranda, professor at the University of Plymouth, UK, Salvatore Savasta, professor at University of Messina, Italy, and Emanuele Dascanio, a professional artist, will join Kipu Quantum in a consortium that will productize quantum computers for arts.

Quantum computing is an emerging, disruptive technology which is expected to enable new capabilities by solving intractable computing problems in many verticals by harnessing quantum physics. While daunting technical development is required before industry problems such as derivative pricing in finance, combinatorial optimizations in logistics, or simulation of solid-state materials are feasible, using quantum computers to create unique pieces of quantum digital art is already possible. “Unlike industry use cases, which de-facto rely on quantum devices outperforming supercomputers, art use cases may benefit from unique properties of small-scale devices such as quantum randomness, entanglement, teleportation, and other properties. This is already an accessible technology, as is evidenced by first quantum art pieces being commercialized as NFTs”, comments Enrique Solano, CEO of Kipu Quantum.

However, creating such quantum art required the creators to have extensive training in quantum physics. “The broader NFT creator community is currently not able to use quantum computers to create art – they may work and even be accessible for free via the cloud, but there are no straightforward tools which allow non-scientists to handle them in a creative and productive form. With Kipu Quantum, we will be creating the technology for the innovative quantum painters of our time”, says Emanuele Dascanio, an internationally renowned artist who has reached excellence in hyperrealism and a curiosity-driven entrance into the world of NFT-based cryptoart. Emanuele will play the role of international advisor on quantum aesthetics for Kipu Quantum.

In collaboration with Miranda, Savasta, and Dascanio, Kipu Quantum is on the transcendental mission to change this by providing the art community with simple-to-use tools to create quantum NFT artwork based on live interaction with quantum computers.

“Our products will be quantum apps that are applicable to the full breadth of digital arts with quantum computers connected in real time: pictures/still images, videos/animations, sound/music. We are creating the quantum instruments and tools for the quantum art belonging to the 21st century, where the creativity of machines and humans will be enhanced to the quantum realm with unprecedented potential for artistic expression”, announced Eduardo Miranda, a pioneer in music composition with artificial intelligence, brain-machine interfaces, and an interdisciplinary artist exploring quantum technologies for a variety of technological purposes. Miranda is set to lead as advisor on research and development on quantum computing for music and art.

“Conceptually, the products will rely on the transformation of classical digital input signals using a quantum computing resource into a quantum output and transformed in a unique manner by using simple quantum properties or sophisticated quantum algorithms. Afterwards, the quantum output will be transferred back into a digital signal which will create unique pieces of quantum art that cannot be simulated or generated with other tools.”, says Salvatore Savasta, a prolific quantum physicist who has recently created an association, Inshighbart, to merge arts with quantum physics. His passion and creativity for such interdisciplinary efforts makes him a key partner. He is set to lead as advisor on product design in computer visual art and exhibitions.

The newly formed team is currently working to jointly create pioneering quantum NFT artworks, which will showcase the capabilities of the Kipu Quantum art toolbox. “Disruptive feedback of leading quantum artists is going to be a game changer to provide the art community with innovative quantum-based musical and artistic instruments. We are working directly with the world-class art community to ensure that our products are both relevant and easily accessible. Our goal is to allow people to experience and artists to produce the quantum music and digital arts that are otherwise impossible in absence of the novel quantum instruments”, says Solano.

About Kipu Quantum GmbH

Kipu Quantum is a German quantum computing startup that currently operates in stealth mode while fundraising a seed round. We design quantum computer products that fulfil customer needs and solve real problems at different business scales. We operate at the intersection between use cases from our customers, platform hardware supplies, and the development of quantum algorithms. Kipu Quantum engages in the challenge of providing quantum usefulness since now and quantum advantage soon. For this, we consider five verticals: art, exhibition, schools, academic research, and industry. In each product, a quantum computer core will be just one component among others within a multiplatform and modular perspective.

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