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ENTER THE QUANTUM REALM AT ARTSCIENCE MUSEUM

In the Ether returns for its second year, uncovering the hidden layers of reality powered by quantum science and emerging technologies



Singapore (1 September 2025) — Marking the International Year of Quantum Science and Technology, the latest edition of ArtScience Museum's *In the Ether* festival is set to celebrate a century of quantum mechanics by inviting visitors of all ages to explore the invisible rules that govern this world.

Presented in partnership with Ethereum Singapore, *In the Ether: A Festival of Quantum Science and Technology* will run from 6 September to 31 October, bringing together leading scientists, artists, technologists, and educators from Singapore and around the world. This includes British artist Libby Heaney, Taiwanese-British artist Yu-Chen Wang, Semiconductor artist duo Ruth Jarman and Joe Gerhardt, and ultra-contemporary artist and designer Amy Karle—all of whom have been exploring the human experience at the intersection of science and technology.

For the first time, ArtScience Museum is also presenting a *Quantum Science Fair* with scientific contributions from the Centre for Quantum Technologies (CQT) in Singapore,

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including artefacts on loan from its experimental teams, and Deutsches Museum in Munich, Germany, in partnership with the Munich Center for Quantum Science and Technology. Visitors can look forward to learning more about these scientific concepts and seeing them come alive through experiments and interactive demos that showcase their impact in engineering and beyond.

"In the Ether is ArtScience Museum's annual festival exploring science and cutting-edge technology. A vivid expression of our commitment to engaging the public in emerging fields of research, the festival is where ideas at the scientific frontier are explored through creativity and education. In this second edition, we enter the quantum realm, at a moment when quantum science is shifting from historical abstraction to practical transformation. Visitors will encounter quantum science through immersive artworks that explore the poetics of entanglement, time and uncertainty, and through scientific exhibits and demonstrations. We are proud to be collaborating with Singapore's Centre for Quantum Technologies and Ethereum Singapore, two partners whose expertise has been instrumental in shaping this year's festival, from making quantum science accessible to exploring the societal potential of decentralised technologies. Opening just one week before our new exhibition, *Another World Is Possible*, the festival also coincides with Singapore Design Week and TOKEN2049, placing ArtScience Museum at the heart of the city's conversations about technology, design and the future," said Honor Harger, Vice President of ArtScience Museum at Marina Bay Sands.

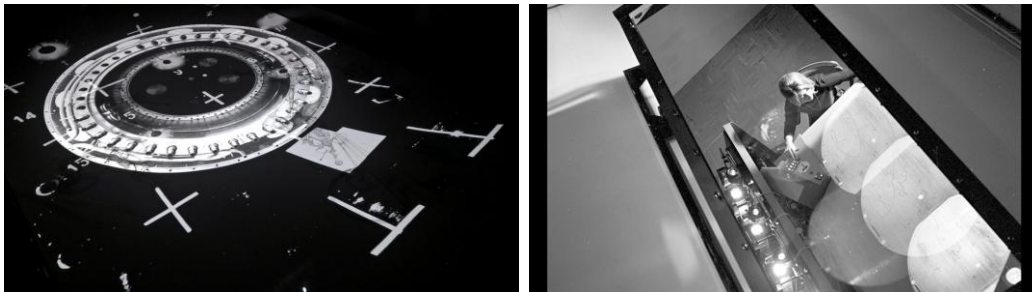
"Ethereum Singapore is honoured to partner with ArtScience Museum in presenting *In the Ether*. Alongside the Museum's groundbreaking installations, we are hosting flagship events that highlight Ethereum's growing role in shaping technology, finance, and society. This includes *NextFin*, co-hosted with Ethereum Foundation during *Ethereum Singapore 2025*, which will convene regulators and global leaders in digital finance to explore Ethereum's role as market infrastructure and its deepening integration into the financial system. We are also curating *d/acc Day*, inspired by Vitalik Buterin's concept of technological acceleration that is decentralised, differential, defensive and democratising in nature, first introduced in his 2023 essay *My Techno-Optimism*. Together, these initiatives reflect Ethereum Singapore's commitment to bridging communities—scientific, financial, artistic, and civic—to build a future that is open, secure, and human-centred," said Qing Ze, Founder of Ethereum Singapore.

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Highlights from *In the Ether: A Festival of Quantum Science and Technology*

The festival consists of eight installations and activity stations spanning three levels across ArtScience Museum—all of which are free for visitors to experience.

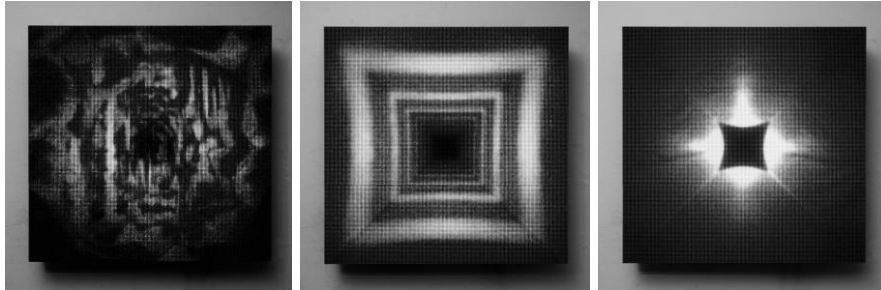
Presented at Level 1 on the Museum lobby's LED screen is *slimeQrawl* (2003) by Libby Heaney, a video installation which invites viewers to dive into the intricate entanglements between machines, life, matter and the quantum world. Through hypnotic, dream-like videos suggestive of quantum interspecies entanglement, the work uses slime as a symbol of potential, transformation and blurred boundaries. This complements *Qlimate Tongues* (2024)—Heaney's 8-channel sound installation at the Oculus of Basement 2, where hybrid human and non-human voices generated by artificial intelligence come together alongside hypnotic sounds from quantum computing, sparking contemplation on how advance technologies shape and entangle with life on earth.



Stills from *We aren't able to prove that just yet, but we know it's out there* (2018-25) by Yu-Chen Wang, images courtesy of the artist

Also located at the Level 1 lobby, Yu-Chen Wang's immersive audio-visual installation *We aren't able to prove that just yet, but we know it's out there* (2018-25) welcomes visitors with a poetic narrative of the history of experimental particle physics, establishing parallels between individual stories and historical archives alongside abstract images produced by the Bubble Chamber—an instrument that earned physicist Donald Glaser a Nobel Prize in 1960.

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L to R: *Light-in-Flight* studies #1, #2 and #3 by Semiconductor, images courtesy of the artists

Meanwhile, Semiconductor artist duo Ruth Jarman and Joe Gerhardt will present the world premiere of their work, *Light-in-Flight* (2025), as part of the festival. Created in collaboration with physicists at the University of Glasgow's Extreme Light Group, this artwork offers a glimpse into the hidden choreography of light. Through a series of animations, visitors can watch time-lapse sequences of 'light-waves' in motion within different spaces ranging from theatres to paper-constructed stage sets. They are shot by a highly sensitive camera that captures how photons—quantum particles of light—emitted by a laser, propagate and scatter as they bounce around, forming wave-light patterns that sculpt the environment.

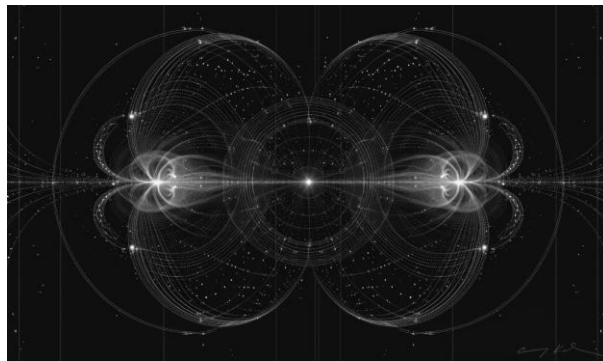
Another major highlight of the festival is the *Quantum Science Fair* located at Basement 2, where visitors can become scientists for a day and discover the strange and powerful behaviours of light and matter.

They can hear first-hand from scientists working at CQT through interactive videos and encounter advanced quantum technologies that have been designed and built in Singapore's very own research labs. CQT is a national research centre with teams at three universities—the National University of Singapore, the Nanyang Technological University, Singapore, and Singapore University of Technology and Design—and at Singapore's Agency for Science, Technology and Research.

One of the artefacts on display is a fridge-sized *quantum gravimeter* that serves as a sensor to measure gravity. Built by a team from CQT, it was designed to be as rugged and small as possible so it could be easily transported and deployed in the field. Before arriving at ArtScience Museum, it measured gravity in a field near the Sembawang Hot Springs, helping to calibrate classical gravimeters in a survey for potential geothermal energy sources.

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As part of the fair, visitors can also get hands-on with activities exploring various quantum principles. Adapted from *Light and Matter*, a special exhibition by the Deutsches Museum, Munich, and the Munich Center for Quantum Science and Technology (MCQST), these experiments include learning more about the principle of entanglement with *Entangled Wheels*, demonstrating fundamental aspects of quantum mechanics with the *Quantum Eraser Experiment*, creating patterns of light with *Laser Kaleidoscope* and testing the theory of ion traps through the *Mechanical Paul Trap*.



Quantum Choreography (2023) as part of *Entangled Horizons* (2023-24) by Amy Karle,
image courtesy of the artist

Visitors can end their journey through the quantum realm on Level 4, where Amy Karle's multimedia installation *Entangled Horizons* (2023-24) explores the interconnectedness of technology, life and the quantum world. It involves facial and body tracking to reflect the fluid and ever-changing nature of reality, accompanied by an immersive soundscape that creates a deep, physical resonance.

***In the Ether: A Festival of Quantum Science and Technology* events and programmes**

Throughout its run, the festival will be complemented by performances, talks, and walk-in activities that delve deeper into the realms of physics, quantum research and technology through other mediums and platforms.

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L to R: Presenter Hannah Fry in *The Future with Hannah Fry: Quantum Arms Race*, image courtesy of Bloomberg Originals/Windfall Films; Still from *Quantum Cowboys* (2022) by Geoff Marslett

From 2 September to 31 October, ArtScience Cinema will present *Quantum on Film*—a curated screening programme that expands on the curious intersection of quantum and cinema through a series of experimental short films, feature films and documentaries. Created by artists, filmmakers and researchers, these works examine how reality unfolds in strange ways through a quantum lens. Highlights include free daily screenings of BBC's two-part series *The Secrets of Quantum Physics* (2014) and Bloomberg Original's Emmy-winning quantum episode of *The Future with Hannah Fry*, special short films as part of ArtScience After Hours on Fridays, and ticketed shows for *The Universal Theory* (2023) by Timm Kröger and the Singapore premiere of *Quantum Cowboys* (2022) by Geoff Marslett on weekends.

On 20 September, the Museum will also host *Quantum Conversations – It's Here, There and Everywhere*, which features a line-up of speakers who are actively exploring the quantum realm. Participants will be able to learn more about its role in the intersection of art, science and technology, discover quantum applications in their daily lives, as well as explore possible career opportunities in the field.



L to R: Performance of *Kamishibai – Ada Lovelace in 2023*, image courtesy of Nick Mangafas; *Q for Quantum – A Theatre with Shadows on Quantum Physics*, image courtesy of Circus of Knowledge

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Additionally, Austrian performance group *Circus of Knowledge* will be coming to town to perform at ArtScience Museum. Known for working with scholars, scientists and artists to bring the magic of learning and discovery to the stage, they will be performing *Q for Quantum – A Theatre with Shadows on Quantum Physics* for the first time from 17 to 19 October, before bringing extraordinary stories of important female scientist, Ada Lovelace, to life with *Kamishibai – Ada Lovelace* from 20 to 22 October.

From 8 September, young visitors and curious minds alike can also drop by ArtScience Laboratory to enjoy complimentary daily walk-in activities designed to make quantum science both accessible and enjoyable through a series of playful recreations. ***Let's Learn Quantum Principles with Games*** reimagines classic games like chess and tic-tac-toe by weaving in quantum physics principles, while ***Let's Learn Particle Physics with LEGO*** incorporates hands-on building for participants to explore the structure of atoms.

Meanwhile, enthusiasts interested in learning about quantum can do so through gameplay with *Dungeons & Dragons – Quantum Kopi*. Held on 25 and 26 October, this tabletop roleplaying game thrusts participants into a kopitiam where they have to fight for one of three realities.

From 29 September to 3 October, ArtScience Museum will also be hosting several key events for *Ethereum Singapore 2025* that are open to the public for registration. This includes *NextFin*, an event centred around creating in-person dialogue between key decision makers in Singapore and around the world, covering topics such as Ethereum's approach to security and the nature of its collaboration with financial institutions in the region.

Another event is *d/acc Day*, which aims to explore what an optimistic future could look like with access to decentralised technologies. The daytime programme, open to all, will feature a series of lightning talks and demonstrations of a wide range of technologies essential to constructing the foundations of a happier and freer future. For more details on Ethereum Singapore 2025, please visit <https://www.ethereum.sg/>.

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For more information on *In the Ether: A Festival of Quantum Science and Technology* and its accompanying programmes, please refer to <https://www.marinabaysands.com/museum/events/in-the-ether.html>.

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About Marina Bay Sands Pte Ltd

Since its opening in 2010, Marina Bay Sands has stood as an architectural marvel and the crown jewel in Singapore's skyline. Home to the world's most spectacular rooftop infinity pool and approximately 1,850 rooms and suites, the integrated resort offers exceptional dining, shopping, meeting and entertainment choices, complete with a year-round calendar of signature events.

Marina Bay Sands is dedicated to being a good corporate citizen to serve its people, communities and environment. It drives social impact through its community engagement programme, Sands Cares, and leads environmental stewardship through its global sustainability programme, Sands ECO360.

For more information, please visit www.marinabaysands.com

About ArtScience Museum

ArtScience Museum is a major cultural institution in Singapore that explores the intersection between art, science, technology and culture. It is the cultural component of Marina Bay Sands. Since its opening in February 2011, ArtScience Museum has staged large-scale exhibitions by some of the world's major artists, including Leonardo da Vinci, M.C. Escher, Salvador Dalí, Andy Warhol and Vincent Van Gogh, as well as exhibitions that explore aspects of science and technology – including particle physics, big data, robotics, palaeontology, marine biology and space science. Its permanent exhibition is a partnership with the Japanese digital art collective, teamLab, and it has become known for our immersive and interactive approach to exhibitions.

For more information, please visit www.marinabaysands.com/museum.html

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