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A New Breakthrough in Quantum Computing is Set to Transform Our World
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 Quantum Computing: Is IonQ Worth The Leap?
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 Shining a light against hackers
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 A scanning quantum sensing microscope with nanoscale electric-field imaging
 Complex shapes of photons to boost future quantum technologies
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 Higher-dimensional supersymmetric microlaser arrays
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Their experiment involved confining a few thousand lithium ... Superfluidity seen in a 2D Fermi gas Coherent dynamic control of quantum systems at these energies is one of the major challenges in hard x-ray quantum optics. Here, we demonstrate that ... 4), or strong coupling of nuclear ensembles (6) ... Coherent control of collective nuclear quantum states via transient magnons Then, hackers gained control of the Colonial Pipeline's operating computers and, all of a sudden, Newell's project gained very real-world emphasis. Newell will be speaking - and fielding questions - ... Shining a light against hackers This Review discusses the photophysical properties and nonlinear behaviour of single molecules, and their use as single-photon sources and in single-molecule sensing and quantum-sensing applications. Single organic molecules for photonic quantum technologies including quantum logic and information processing. 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Higher-dimensional supersymmetric microlaser arrays

4 Department of Physics, Institute for Quantum Electronics, ETH Zürich, 8092 Zürich, Switzerland. 5 Institut für Experimentalphysik, Universität Innsbruck, 6020 Innsbruck, Austria. 6 IBM Quantum, IBM ...

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