

Dr. Christopher Monroe

CEO and co-Founder at IonQ, Inc., a start-up company that is developing and commercializing the world's first fully-expressive, full-stack quantum computer, based on trapped atomic ions.

Lead a large experimental research group at Duke University, fabricating and using quantum computers and for fundamental studies of quantum physics and quantum entanglement. Investigate the storage and processing of quantum information using individual electromagnetically confined atoms and photons, the communication and teleportation of quantum information, and the use of quantum systems to simulate the complex behavior of magnetic materials. Tools include advanced laser sources, photonic technology, fast electronics, semiconductor structures, and stable microwave and radiofrequency sources.