

Abstract Submitted
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Progress toward scalable quantum computing at Honeywell Quantum Solutions JOHN GAEBLER, BRYCE BJORK, DAN STACK, MATTHEW SWALLOWS, MAYA FABRIKANT, ADAM REED, BEN SPAUN, JUAN PINO, JOAN DREILING, CAROLINE FIGGATT, Honeywell Quantum Solutions — Honeywell Quantum Solutions (HQS) is pursuing a scalable quantum computing architecture based on trapped atomic ions. To this end, HQS is developing a broad array of enabling technologies and capabilities, including demonstrations of high-fidelity single- and two-qubit gates, fast ion transport and ion crystal reconfiguration, parallel multi-zone laser addressing of trapped ion qubits, and the design and microfabrication of state-of-the-art multi-zone ion traps. We will report recent progress on these and other fronts.

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