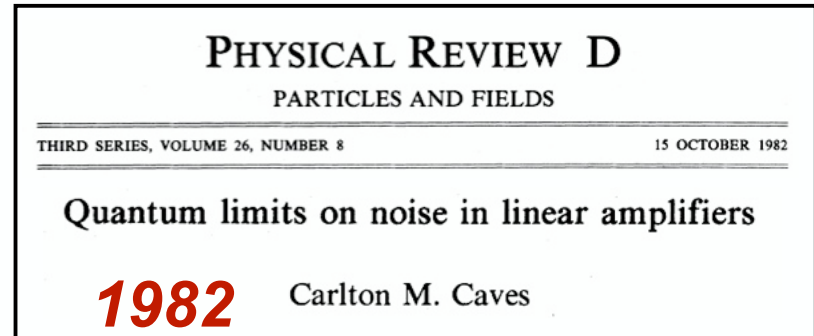


The Quantum System Engineering Roadmap: FAQ

Q4: When might this technology reasonably be ready?

A4: By 2010, if present rates of progress are sustained

- **Sustaining MRFM progress requires three coordinated efforts:**
 - Synthesizing engineering principles from the emerging nanoscale physics.
 - Fabricating the next generation of devices: smaller, colder, and quieter,
 - Testing these devices in real-world imaging environments
- **Shigeo Shingo and Taichii Ohno**



Achieving Caves' quantum limits required 17 years "pursuit of perfection"

The essence of quantum system engineering (QSE) is "unrelenting pursuit of engineering perfection"