A new tool “nugget” from FOCUS:

**Lithographic Linear Ion Trap**

*M. Madsen, D. Stick, R. Miller, and C. Monroe*

We have fabricated a 200 micron linear ion trap at the U. Mich. Solid State Electronics Laboratory, and loaded the trap with cadmium ions. This structure will become the workhorse in our laboratory for years to come. Future implementations of quantum computers will required mass fabrication techniques applied to the fragile environments of quantum systems, and this is a first step towards that goal.