Abstract Submitted
for the MAR07 Meeting of
The American Physical Society

Shadow Evaporated Josephson Junctions for superconducting qubits FABIO ALTOMARE, JOSÉ AUMENTADO, KEVIN OSBORN, JOSHUA STRONG, RAYMOND SIMMONDS, National Institute of Standards and Technology, 325 Broadway, Boulder CO 80305. — Superconducting circuits are a promising system for the implementation of quantum computing. At present two-level system defects in junctions create a formidable obstacle for superconducting qubits. As shown previously, juctions of reduced size have fewer defects. Making high quality utra-small Josephson junctions is crucial for futher progress. In this talk we will discuss how we define and assess the quality of our shadow evaporated Josephson junctions.

Fabio Altomare
National Institute of Standards and Technology, 325 Broadway, Boulder CO 80305.

Date submitted: 27 Dec 2006 Electronic form version 1.4