

Abstract Submitted  
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**Towards the coupling of microsphere resonators and self-assembled semiconductor quantum dots.** PABLO BIANUCCI, JOHN ROBERTSON, ANDREAS MULLER, LUIS PRILL SEMPERE, CHIH-KANG SHIH, Physics Department, The University of Texas at Austin, Austin, Texas, 78712 — Coupling semiconductor quantum dots with microcavities is a challenge which opens the door to many interesting basic and applied experiments. Using microsphere resonators and self-assembled quantum dots has the advantage of allowing mechanical scanning of the resonator position to find a quantum dot in resonance (or far from it). We will show our progress toward that goal, which includes measuring the Q factor of the resonators in different conditions.

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