Coupling Single Quantum Dots to Micropost Microcavities

- Spontaneous emission from single InAs / GaAs self-assembled quantum dots has been efficiently coupled to a single three-dimensionally confined mode in a micropost microcavity
- Up to 78% of photons have been coupled into a single optical mode
- This gives the potential of producing an efficient source of triggered single photons

User: Matthew Pelton, Applied Physics, Stanford University
Principal Investigator: Prof. Yoshihisa Yamamoto, Ginzton Laboratories
NNUN Site: Stanford University