Title: Routes to Very High Entanglement \*

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Abstract:

We will examine areas where a very high degree of bipartite entanglement can be triggered by photon-atom interactions. In several cases, detailed theoretical analysis is feasible via Schmidt mode evaluation. When going far beyond the current experimental degree of entanglement, we show that EPR-type localization with a conditional uncertainty product much smaller than unity can be one consequence.

\*Supported by NSF PHY00-72359 and ARO DAAD19-99-1-0215.