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BETWEEN PHOTONS AND ATOMS Introduction 67 A Emission Process: A New Photon Appears 69 1 Spontaneous Emission between Two Discrete Atomic Lev els Radiative Decay of an Excited Atomic State—a Dia grammatic Representation, b Spontaneous Emission Rate c Nonperturbative Results 69 2 Spontaneous Emission between a Continuum State and

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iv DFunaro - From Photons to Atoms tion is unavoidable to arrive at a full description of the structure of matter, because this energy is not just an innocent by-product, but the primary ingredient of our universe As I have already said, the exposition given here is mainly qualita-tive Therefore,

some known facts will be reported in a

A Quantum Network with Atoms and Photons - arl.army.mil

ARL-TR-7786 SEP 2016 US Army Research Laboratory A Quantum Network with Atoms and Photons by Ronald E Meyers, Keith S Deacon, Arnold D Tunick, Qudsia Quaraishi, Patricia Lee Approved for public release; distribution unlimited

Quantum networking with photons and trapped atoms (Invited)

photons are combined If two photons emitted by two atomic sources interfere on a beam splitter (BS), then the appropriate measurement of the photons from the two at-oms can project the atoms into an entangled state that can be used as a resource for further quantum informa-tion processing Here, we present a theoretical and experimental over-