

Abstract Submitted  
for the DAMOP05 Meeting of  
The American Physical Society

**Chirping and superradiance** SUSANNE YELIN, TUN WANG, University of Connecticut — The role of dipole-dipole interactions is studied for Dicke-like superradiant decay. Whereas the incoherent part of the interaction, leading to speed-up and line-broadening, is qualitatively well-known, we introduce the coherent part that leads to a chirp accompanying the decay. Studies on more realistic and/or more complicated setups are included.

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Date submitted: 28 Jan 2005

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