

The Spatial -Temporal Correlations of Resonance Fluorescence

YANG Guo-Jian, TIAN Ke-Ke and WANG Kai -Ge

Department of Physics, Beijing Normal University, Beijing 100875, China
(Received: 2000-10-16; Revised: 2001-1-19)

Abstract: The spatial-temporal correlations of resonant fluorescence from a single two-level atom is studied based on the investigation of different photocurrent correlations after homodyning the fluorescence with a local oscillator. It is found that the nonclassical features of the measured field is position-dependent on the detection plane.

PACS: 42.50.Dv

Key words: resonance fluorescence, homodyne detection

[\[Full text: PDF\]](#)

Close