



PAPER

Electromagnetically induced acoustic transparency amplifier using a superconducting transmon circuit

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Keywords: numbers, 42.50, electromagnetically induced acoustic transparency, superconducting transmon circuit, group velocity of surface acoustic waves**Abstract**

We present a scheme for the amplification of electromagnetically induced acoustic transparency (EIAT) in a superconducting transmon circuit. Recently, EIAT has been demonstrated experimentally in a three-level ladder-type superconducting artificial atom [G Andersson *et al*, Phys. Rev. Lett. **124**, 240 402 (2020)]. In this experiment, the authors have noticed only 20% transmission of surface acoustic waves (SAW) due to limited linewidth of the EIT window. Here we utilize an additional microwave field to enhance the transmission of SAW. This additional field increases the coherence in the second excited state which causes the amplification in transmission and the reduction in corresponding group velocity is achieved.

1. Introduction

Quantum interference (QI) and quantum coherence (QC) play an important role in many quantum optical phenomena [1]. A coherent optical phenomenon which renders transparency in an opaque medium by the influence of a strong electromagnetic field is known as electromagnetically induced transparency (EIT) [2–7]. One of the dominant aspects of EIT is the reduction in group velocity leading to slow light as the field propagates through EIT medium [8], which is a key factor in certain fields such as, quantum information processing (QIP) [9], non-linear optics [10] and quantum metamaterial [11]. EIT is a consequence of Fano interference between two atomic transitions [12]. Without Fano interference, the transparency is simply due to a doublet structure in the absorption profile caused by electromagnetic pumping and known as Autler-Townes splitting (ATS) [13]. Based on this concept, optical switching from EIT to ATS has also been observed [14].

In recent years, the main focus of research in this field is the observation of light-matter interaction at macroscopic level. For that purpose superconducting circuits have become subject of intense research because of their advantage of high tunability and coherence in contrast with natural atoms. Superconducting artificial atoms are made up of circuits with dimensions $r \approx 10^{-4} - 10^{-3}$ m, which interact with microwave field as point-like atoms [15]. Josephson junction based superconducting artificial atoms [16] have replaced many quantum optical phenomena that occur on a microscopic or atomic level such as ATS [17], coherent population trapping (CPT) [18], and EIT [19]. EIT with amplification and lasing without inversion (LWI) has also been observed in a three level superconducting artificial atoms by incorporating relative phase between optical fields [20]. Recently the generation of hybrid quantum entangled state in a cavity electro-optic system [21] and non-Hermitian shortcut to adiabaticity in cavity magnon-polaritons [22] has been realized. The nonlinearity in inductance and no dissipation of energy makes superconducting qubits an essential building block of quantum computers [23]. Several approaches have been proposed for coupling a superconducting qubit with spin ensembles [24, 25] and nanomechanical resonators [26].

The above mentioned works were carried out under dipole approximation ($r \ll \lambda$). When the ratio between the size of the artificial atom and the wavelength of the incoming field is increased, the atom will no longer interact under the small-atom approximation. These artificial atoms are also known as giant atoms [27–29].

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