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Exact Solution of the Milburn Equation for the Coupled-Channel Cavity QED Model SONG Tong-Qiang,<sup>1</sup> ZHU Yue-Jin,<sup>1</sup> and FAN Hong-Yi<sup>2,3</sup>

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Abstract: We give the exact solution of Milburn equation for a coupled-channel cavity QED model which includes the Stark term and the frequency detuning, and study the influence of the intrinsic decoherence on the atomic inversion of the system.

PACS: 42.50.Dv Key words: Milburn equation, intrinsic decoherence, atomic inversion

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