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Analytical Results for Model Describing Interactions Among Six Bosonic Modes ZHAN Zhi-Ming<sup>1</sup>, LI Wei-Bin, <sup>2</sup> and YANG Wen-Xing<sup>2</sup>

- <sup>1</sup> State Key Laboratory of Laser Technology, Huazhong University of Science and Technology, Wuhan 430074, China
- <sup>2</sup> Department of Physics, Huazhong University of Science and Technology, Wuhan 430074, China (Received: 2004-2-13; Revised: )

Abstract: We present the explicit analytical results of all the eigenstates and eigenvalues using a parameter \$\lambda\$ without the assumption of Bethe ansatz for three different kinds of six bosonic modes models. The parameter is determined by the roots of a polynomial and is solvable analytically or numerically.

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