**ABSTRACT**

**Lisnasari Andi Mattoliang, 2013. The Effectiveness of Quantum Learning Model in Mathematics Learning for Students of Grade X SMA Negeri 2 Sengkang. Thesis. Mathematics Department, Mathematics and Science Faculty, State University of Makassar (Supervisors H. Suradi Tahmir and Suwardi Annas)**

Quantum Learning model is a learning model that engage students actively and can create a comfortable and enjoyable learning situation. This study is experimental research. The design of this study is Pre-Experimental Design, namely, One-Group Pretest-Posttest Design. This study involves one experimental class, XA, with 31 students. This study aims to know the effectiveness of quantum learning model in mathematics learning for students of Grade X SMA Negeri 2 Sengkang based on four criteria of learning effectiveness. The criteria are the achievement of classical mastery, students’ activities are in ideal time interval, more than 50% students give positive response to the learning with quantum learning model, and there is significant improvement of students’ learning achievement after being taught using quantum learning model. The instruments of data collection are achievement test, observation sheet, and questionnaire sheet. The techniques of data analysis are descriptive statistical analysis and inferential statistical analysis. The results show that: (1) students’ learning achievement grade X SMA Negeri 2 Sengkang before being taught by using quantum learning model is in very low category and after being taught by using quantum learning model, it is in high category, and the improvement of students’ learning achievement grade X SMA Negeri 2 Sengkang is in high category; (2) there are 77% students achieving individual mastery. It means that students do not achieve the classical mastery, that is, 85%; (3) students’ activity in learning process with quantum learning model is effective; (4) students’ response toward learning with quantum learning model is effective; (5) there is significant improvement of students’ learning achievement after being taught by using quantum learning model; and (6) quantum learning model has not been effective in mathematics learning for students of grade X SMA Negeri 2 Sengkang.

**Key word:** Effectiveness, quantum learning model, mathematics learning.