

Sudan University of Science and Technology

College of Graduates Studies



**Lyapunov Inequalities for Bound States of Linear
Hamiltonian Systems and Laplace Transform With
Measure Preserving**

متباينات ليابونوف للحالات الحدية للأنظمة الهامالتونية الخطية وتحويل
لابلاس مع حفظ القياس

**A Thesis Submitted in Fulfillment Requirements for the
Degree of Ph.D in Mathematics**

By

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