

Building Single Molecules from Single Atoms

A DISSERTATION PRESENTED
BY
YICHAO YU
TO
THE DEPARTMENT OF PHYSICS

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN THE SUBJECT OF
PHYSICS

HARVARD UNIVERSITY
CAMBRIDGE, MASSACHUSETTS
MARCH 2021

©2021 – YICHAO YU
ALL RIGHTS RESERVED.

Thesis advisor: Professor Kang-Kuen Ni

Yichao Yu

Building Single Molecules from Single Atoms

ABSTRACT

Contents

Acknowledgments

,