

Building Single Molecules from Single Atoms

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ABSTRACT

Contents

o	INTRODUCTION	1
1	APPARATUS	2
2	COMPUTER CONTROL OF THE EXPERIMENT	3
3	RAMAN SIDEBAND COOLING	4
4	INTERACTION OF SINGLE ATOMS	5
5	PHOTOASSOCIATION OF SINGLE ATOMS	6
6	TWO-PHOTON SPECTROSCOPY OF NaCs GROUND STATE	7
7	COHERENT OPTICAL CREATION OF NaCs MOLECULE	8
8	CONCLUSION	9

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Introduction

1

Apparatus

2

Computer control of the experiment

3

Raman sideband cooling

4

Interaction of single atoms

5

Photoassociation of single atoms

6

Two-photon spectroscopy of NaCs ground
state

7

Coherent optical creation of NaCs

molecule

8

Conclusion