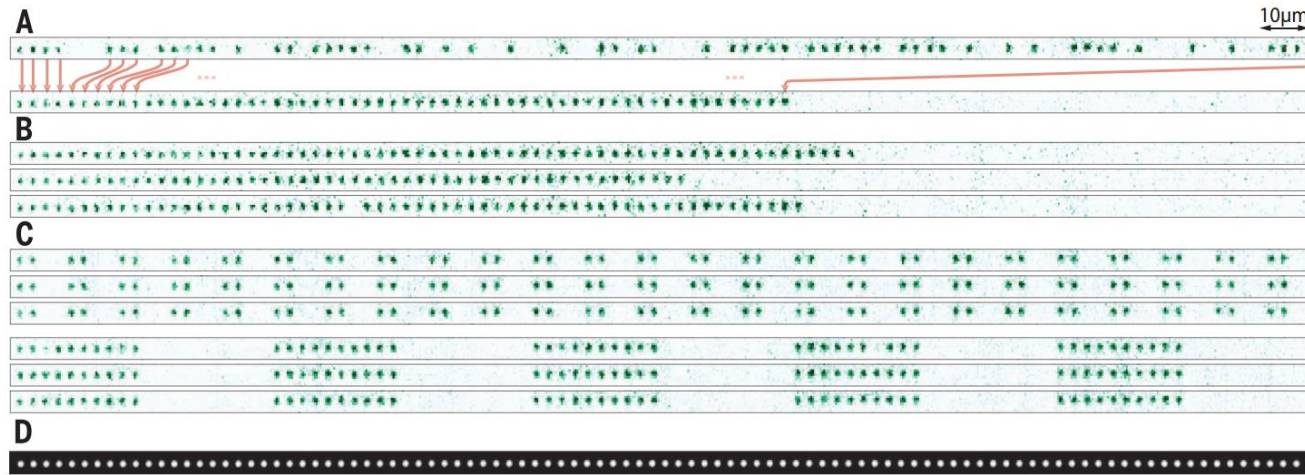


Section 1

Phys 175

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Tweezer Experiments



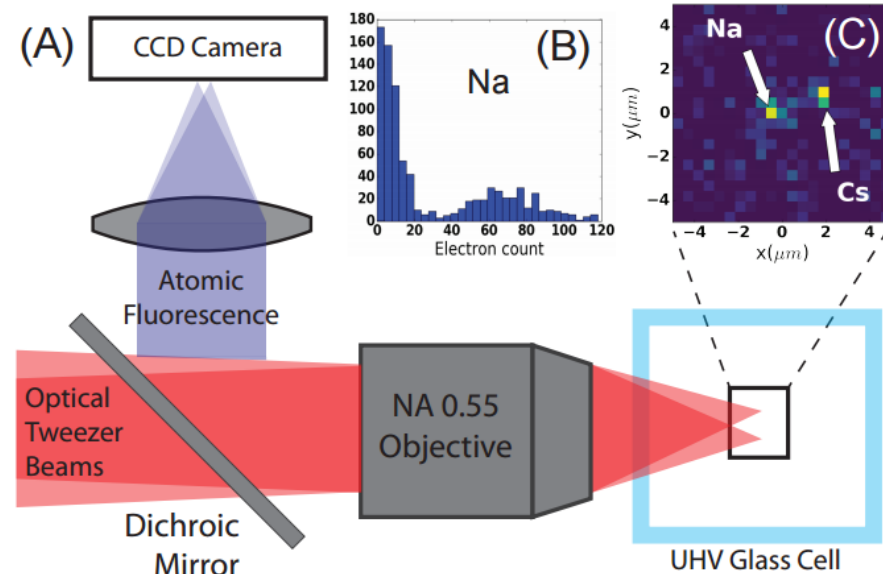
COLD ATOMS

Atom-by-atom assembly of defect-free one-dimensional cold atom arrays

Manuel Endres,^{1,2,*} Hannes Bernien,^{1,*} Alexander Keesling,^{1,*} Harry Levine,^{1,*} Eric R. Anschuetz,¹ Alexandre Krajenbrink,^{1,†} Crystal Senko,¹ Vladan Vuletic,² Markus Greiner,¹ Mikhail D. Lukin¹

Ultracold Molecular Assembly

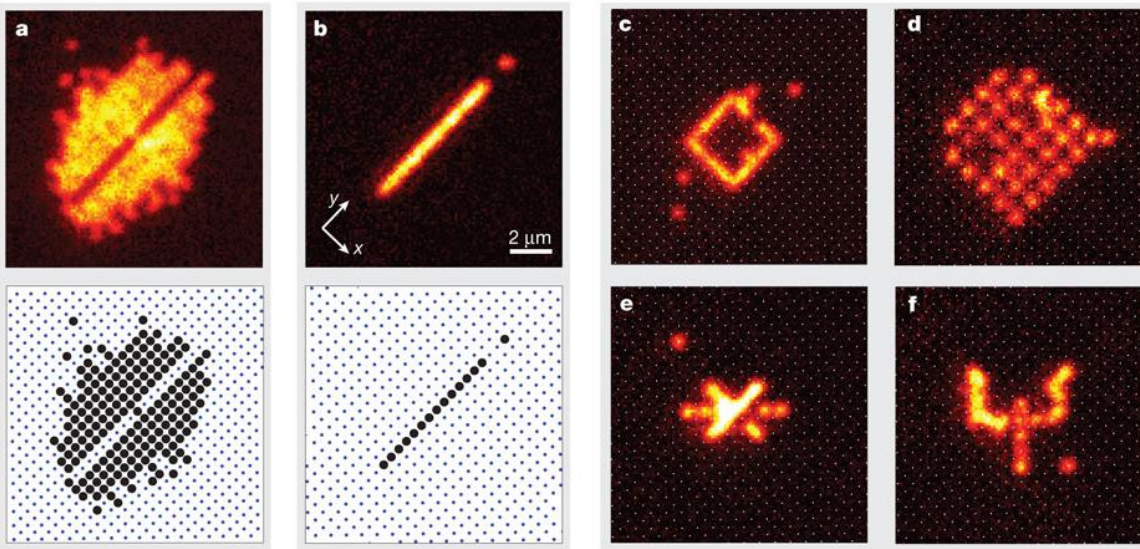
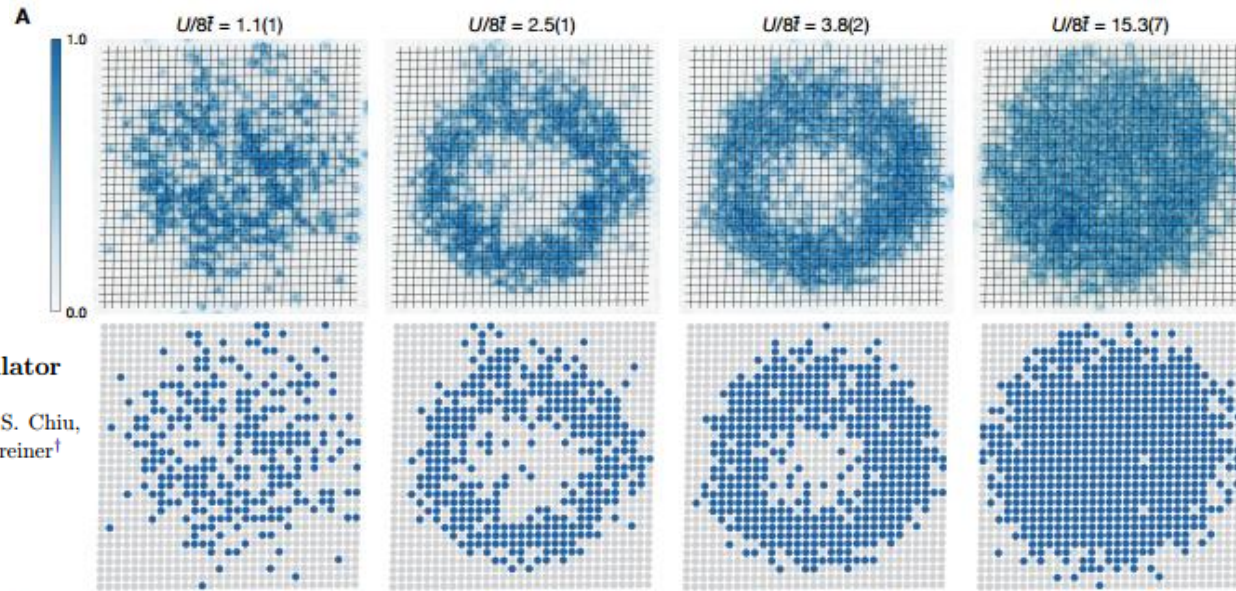
Lee R. Liu,^{abc} Jessie T. Zhang,^{abc} Yichao Yu,^{abc} Nicholas R. Hutzler,^{abc} Yu Liu,^{abc} Till Rosenband,^b and Kang-Kuen Ni^{*abc}



Lattice Experiments

Site-resolved imaging of a fermionic Mott insulator

Daniel Greif, Maxwell F. Parsons, Anton Mazurenko, Christie S. Chiu,
Sebastian Blatt,* Florian Huber, Geoffrey Ji, and Markus Greiner[†]



Single-spin addressing in an atomic Mott insulator

Christof Weitenberg, Manuel Endres, Jacob F. Sherson, Marc Cheneau, Peter Schauß,
Takeshi Fukuhara, Immanuel Bloch & Stefan Kuhr