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anything smaller.

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by manipulating a
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Both of these
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created molecules
in precisely
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using lasers to
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atoms. In one case,

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the excited molecules quickly decayed into other states, which were undetectable (see Meetings: Building a Molecule Atom by Atom). In the other case, the lasers that were used to make the molecules then destroyed them before the team

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could make
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(see Focus: A

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quantum molecular assembler—a device that takes individual atoms as inputs and merges them into a molecule in a desired quantum state. The team used lasers to trap and cool one sodium (Na) atom and one cesium (Cs) atom, bring

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them together, and merge them into an NaCs molecule in a specific quantum state.

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Quantum Molecular Assembler

At the quantum scale, atoms can spin clockwise or counterclockwise,

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which gives them an orientation, like a compass needle. In magnetic materials, the spin of many atoms can show a variety of phenomena, including equilibrium states, where atom spins are aligned, and dynamic behavior, where the spins

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comes from three of the twentieth century's greatest advances: the establishment of the atom as the building block of matter; the development of quantum mechanics, which made it possible to understand the inner workings of

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clocks, which in turn has given way to today's navigation by atomic clocks.

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