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Independent Control of Scattering Lengths in Multicomponent Quantum Gases

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We develop a method of simultaneous and independent control of different scattering lengths in ultracold multicomponent atomic gases, such as \$ \mathbb{40}}\$K or ^{\mathbb{40}} K or ^{\mathbb{40}}} K-\$^{\mathbb{6}}Li mixture. Our method can be used to engineer multi-component quantum phases and Efimov trimer states.

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