

Abstract Submitted  
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**Combining STIRAP and Feshbach resonances for ultracold molecule creation** PHILLIP PRICE, University of Connecticut, SUSANNE YELIN, University of Connecticut, Harvard University — We are studying methods for creating ultracold molecules from ultracold atoms. Ultracold molecules have many potential uses in quantum computation, few-body collision physics, and control of chemical reactions. We will study this problem using numerical simulations and genetic algorithms.

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