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Photoassociation of NaCs using chirped laser pulses STEPHANE VALLADIER, University of Oklahoma — I present rates of photoassociation of NaCs from the continuum of the $X^1\Sigma^+$ electronic state to a set of high-lying rovibrational states of the $A^1\Sigma^+$ electronic state using chirped laser pulses. Chirping the pulse encompasses several energies of the scattering atoms from the continuum of the $X^1\Sigma^+$ state, thus addressing the issue of the thermal distribution. This work is a stepping stone towards rovibrational cooling of NaCs using chirped laser pulses and stimulated Raman adiabatic passage.

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