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**Photoassociative Spectroscopy of Ultracold NaCs** CHRISTOPHER HAIMBERGER, JAN KLEINERT, NICHOLAS P. BIGELOW, University of Rochester, COOLING AND TRAPPING GROUP TEAM — We present photoassociative spectroscopy of excited states of NaCs below the Na(3S1/2)+Cs(6P3/2) asymptote by ionization detection of ground state molecules. States have been observed as far as  $31 \text{ cm}^{-1}$  from dissociation and as close as  $0.1 \text{ cm}^{-1}$  from dissociation. We observe as many as 60 ions per ionizer pulse, implying ground state molecule formation rates as high as 100 kHz.

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