Abstract Submitted
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Global Analysis of Data on the Spin-Orbit Coupled $A^1\Sigma_u^+$ and $b^3\Pi_u$ States of Cs_2[1] T. BERGEMAN, H. SALAMI, SUNY Stony Brook, JIANMEI BAI, E.H. AHMED, B. BESER, Y. GUAN, S. KOTOCHIGOVA, A.M. LYYRA, Temple U., S. ASHMAN, C.M. WOLFE, J. HUENNEKENS, Lehigh U., F. XIE, D. LI, LI LI, Tsinghua U., M. TAMANIS, R. FERBER, U. of Latvia, Riga, A. DROZDOVA, E. PAZYUK, A.V. STOLYAROV, Moscow State U., J.G. DANZL, U. Innsbruck, H.-C. NÄGERL, U. Innsbruck, N. BOULOUFA, O. DULIEU, C. AMIOT, U. Paris-Sud, Orsay — Experimental data from Orsay, Tsinghua, Temple, Innsbruck and Riga on the A and b states of Cs_2 have been modeled so as to extract potential curves and spin-orbit coupling functions.[2] The fitted term values are relevant for the production of cold Cs_2 ground state molecules from cold Cs atoms or from Feshbach resonance states.

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[2]J. Bai et al., accepted for publication in PRA.

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