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M K Dabkowski* (mdab@utdallas.edu), Department of Mathematical Sciences, UTD, Richardson, TX 75080, and **Cheyu Wu**. *Coefficients of Catalan States of Lattice Crossing – Formulas and Properties*. Preliminary report.

We discuss relations between coefficients of different Catalan states of Lattice crossing $L(m, n)$. Using them, we derive formulas for coefficients of Catalan states in terms of coefficients of Catalan states with no returns on one side. This allows us to establish new results about coefficients of Catalan states of $L(m, n)$ and their properties. (Received August 31, 2021)