1099-57-398 **Mieczyslaw K. Dabkowski*** (mdab@utdallas.edu) and **Changsong Li**. *Catalan and Kauffman States of Lattice Crossing.* Preliminary report.

For lattice crossing $L(m,n)$ we show which Catalan connections between $2(m+n)$ points on the boundary of $m\times n$ rectangle P can be realized as Kauffman states and we give an explicit formula for the number of such connections. In some special cases of Catalan connection, we also give a formula for their coefficients in the Relative Kauffman Bracket Skein Module of $P\times I$. (Received February 11, 2014)