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A combinatorial approach to lattice path asymptotics

Several different approaches to determine the exponential growth for lattice paths restricted to the quarter plane have recently appeared. This talk will survey this recent progress and offer a relatively simple strategy that is surprisingly general, gives tight bounds and sheds some insight on the fundamental differences between walks restricted to a region defined by one boundary, and those restricted by two boundaries. Work in collaboration with Samuel Johnson (SFU) and Karen Yeats (SFU).