Arctic curves of the six-vertex model

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First, the derivation of the Arctic curve of the six-vertex model with domain wall boundary conditions, for the whole phase diagram of the model, will be reviewed.
Next, the extension of the above result to the case of generic regions of the square lattice will be discussed.

(Work done in collaboration with Andrei Pronko, Paul Zinn-Justin, Vanni Noferini, Andrea Sportiello)