

## **Rectangular diagrams and Jones' conjecture II: Legendrian graphs, bypasses, and simplifying discs**

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We consider a more general object than a Legendrian link, namely, a Legendrian graph. We extend a notion of a rectangular diagram and introduce corresponding moves to study Legendrian graphs in a combinatorial way. For the proof of the Jones' conjecture we need a special case of Legendrian graphs:  $\Theta$ -graphs obtained by attaching a bypass to the diagram. We show why the existence of a bypass implies that the diagram can be simplified.

Joint work with Ivan Dynnikov.