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**Steven Sivek\*** ([ssivek@math.mit.edu](mailto:ssivek@math.mit.edu)), 77 Massachusetts Ave., Room 2-089, Cambridge, MA 02139. *A bordered Chekanov-Eliashberg algebra.*

The Chekanov-Eliashberg invariant of a Legendrian knot is a differential graded algebra determined by a front diagram. Using ideas from bordered Heegaard Floer homology, we can break such a diagram into several pieces and assign a DGA to each so that the knot invariant can be recovered by a pairing theorem analogous to the van Kampen theorem. We will apply this technique to construct morphisms between the DGAs of fronts related by Legendrian tangle replacements and to compute the linearized contact homology of Legendrian Whitehead doubles. (Received January 19, 2011)