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Lopsided coatings of a visco-elastic fluid on a vertical fibre EDWARD HINCH, DAMTP-CMS, Cambridge University, CLAIRE MCILROY, Georgetown University — It has been observed by Boulogne, Pauchard and Giorgiutti-Dauphine that, when a visco-elastic coating drains on a vertical fibre, the coating becomes lopsided. A theory is proposed in which the non-axisymmetry develops through an instability driven by second normal stresses, i.e. tension in the vortex lines. At long times the coating dewets one side of the fibre.

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