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COUNTING MULTICURVES ON SURFACES VIA GEOMETRIC RECURSIONS

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After recalling Mirzakhani–McShane identity and Mirzakhani’s recursion for Weil-Petersson volumes, I will show that its generalisation yields a recursion for statistics of multicurves on bordered surfaces (the induction parameter is the Euler characteristic), and give an application to Masur–Veech volumes of the moduli of quadratic differentials.