The neoclassical angular momentum flux in the large aspect ratio limit

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The small rotation version of the neoclassical angular momentum flux is calculated in the large aspect ratio limit and in the banana regime. The method relies on solving an adjoint equation to the customary linearized drift kinetic equation, circumventing the difficulty of obtaining the ion distribution function that is second order in the ratio of poloidal gyro-radius over plasma scale length. The result differs significantly from a long-standing result for circular cross-section flux surfaces.