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**Nicholas O. Kirby\*** (nokirby@uw.edu) and **Eliot Fried**.  *$\Gamma$ -limit for inextensible, elastic ribbons having centerlines with nonvanishing curvature.*

In 1930, Sadowsky proposed the limiting form of the energy of an inextensible ribbon of vanishing width. This was based on taking a pointwise limit of the integrand for a ribbon with positive width, where the energy is written as an integral along the centerline of the ribbon. It will be demonstrated that the  $\Gamma$ -limit of an energy functional for an inextensible ribbons with centerlines of nonvanishing curvature yields Sadowsky's proposed functional as the width of the ribbon passes to zero. This is the result of joint work with Eliot Fried. (Received September 15, 2013)