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Stephen E McKeown* (stephen.mckeown@utdallas.edu), Dept. of Mathematics, FO 35, UT Dallas, 800 W. Campbell Road, Richardson, TX 75080. *Extrinsic Curvature and Conformal Gauss-Bonnet for Four-Manifolds with Corner.*

Building on work of Gilkey, Branson, Chang, and Qing, I present a rewriting of the Gauss-Bonnet formula for Riemannian four-manifolds with codimension-two corner for which each integrand has interesting conformal transformation properties; in particular, I define a new linear second-order conformally invariant differential operator that parametrizes the conformal change of the corner integrand. (Received July 15, 2020)