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Patrick Thomas Waters*, pwaters@math.arizona.edu. *Enumerating g -Maps with Odd Valences*. Preliminary report.

g -Maps are classes of graphs embedded on compact Riemann surfaces. The Wick calculus relates generating functions for g -map counts to asymptotics of recurrence coefficients for orthogonal polynomials. Much is known about generating functions for g -maps with even valences. The “odd valence case” is significantly more complicated, but exposes new and interesting aspects of the g -map enumeration problem. (Received September 10, 2012)