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**Renzo Cavalieri** and **Nicola Tarasca\*** ([nicola.tarasca@icloud.com](mailto:nicola.tarasca@icloud.com)). *Loci of genus two curves with marked Weierstrass points*. Preliminary report.

This project deals with the geometry and combinatorics of moduli spaces of curves. The locus of curves of genus two with  $n$  marked Weierstrass points has codimension  $n$  inside the moduli space of genus two,  $n$ -pointed curves, for  $1 \leq n \leq 6$ . We produce an explicit formula for the classes of these loci. The formula is expressed using a generating function over stable graphs indexing the boundary strata of moduli spaces of pointed stable curves. (Received July 25, 2017)