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Renzo Cavalieri* (renzo@math.colostate.edu), 1874 Campus Delivery Mail, Fort Collins, CO 80524-1874. *A tour of hyperelliptic loci.*

Hyperelliptic loci are subvarieties of the moduli spaces of curves which parameterize curves that admit a degree two map to the projective line. They are one of the basic examples of tautological classes described by the geometric properties that the curves parameterize satisfy. This talk will survey what we know and what we would like to know about these classes, and highlight the similarities and differences between the collection of all hyperelliptic loci and the datum of a CohFT. Collaborative work with Tarasca and Schmitt will be presented. (Received September 09, 2019)