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Hyperelliptic Hodge integrals

We will discuss the structure of hyperelliptic Hodge integrals (integrals of λ and ψ classes on the hyperelliptic locus of curves). We start by giving a purely combinatorial proof of Faber–Pandharipande's well known formula for $\lambda_g\lambda_{g-1}$, and proceed from there to describe several nice combinatorial features/formulas of more general classes integrals.