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Slide rules and tournaments for ω and ψ class products on $\overline{M}_{0,n}$

We give a positive expansion for the product of any number of ω and ψ classes on $\overline{M}_{0,n}$ in terms of boundary strata using a combinatorial algorithm we call *slide labelings* of trees. We obtain these expansions by constructing a flat family of subschemes whose general fiber is a complete intersection representing the product, and whose special fiber is a generically reduced union of boundary strata. We then give two new combinatorial interpretations of the multidegrees of the embeddings corresponding to ω and ψ classes, one in terms of slide labelings, and one in terms of *lazy tournaments*. This is joint work with Maria Gillespie and Jake Levinson.