

The skeleton of the Esteves' universal Jacobian and the universal Abel map

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For each universal polarization, we construct a universal tropical Jacobian as a generalized cone complex over the moduli space of stable pointed tropical curves. We show that the natural compactification of this space is isomorphic to the skeleton of the Esteves' universal Jacobian. We apply the construction to give a resolution of the universal Abel map taking values in the Esteves' universal Jacobian. This is a joint work with Alex Abreu.

References

- [1] A. ABREU, M. PACINI, *The universal tropical Jacobian and the skeleton of the Esteves' universal Jacobian* arXiv:1806.05527
- [2] A. ABREU, M. PACINI, *The resolution of the universal Abel map via tropical geometry and applications* In preparation.