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The triple reduced product and Higgs bundles

We give an identification of the triple reduced product of three coadjoint orbits in $SU(3)$ with a space of Hitchin pairs (\mathcal{E}, Φ) over a genus 0 curve with three punctures, where the residues of Φ at the punctures are constrained to lie in fixed coadjoint orbits. In the language of Hitchin systems, we identify the moment map for a Hamiltonian circle action on this space of pairs. We make use of the results of Adams, Harnad and Hurtubise to find a description of this system.