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Complex Structure on the extended moduli space and the q-Hamiltonian space

We construct an almost complex structure on the extended moduli space and show that it is integrable. We then also construct an almost complex structure on the analogous q-Hamiltonian space and show that this structure is not integrable in any genus. We show that there exist other almost complex structures on the q-Hamiltonian space which are integrable on an open dense subset.