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Infinite-Hamiltonian Structures of the Riemann Equation

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Abstract: We give two distinct infinite-Hamiltonian representations for the Riemann equation. One with first order Hamiltonian operators and another with third order-first order Hamiltonian operators. Both representations contain an arbitrary function of the dynamical variable. We prove that all the Hamiltonian operators of the Riemann equation are mutually compatible.

 [Keywords](#)
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Key Words: Integrability, multi-Hamiltonian structures, Riemann equation.



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