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Operators on Differential form Spaces for Riemann Surfaces

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摘要

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Operators on Differential form Spaces for Riemann Surfaces

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Abstract In the present paper, a problem of Ioana Mihaila is negatively answered on the invertibility of composition operators on Riemann surfaces, and it is proved that the composition operator C_{ρ} is Fredholm if and only if it is invertible if and only if ρ is invertible for some special cases. In addition, the Toeplitz operators on $\wedge_{2,a}^1(M)$ for Riemann surface M are defined and some properties of these operators are discussed.

Key words [Riemann surface](#) [Composition operator](#) [Toeplitz operator](#)

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