

## Complex symmetric weighted composition-differentiation operators on Hardy-type spaces

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**Abstract.** In this note, we completely characterize the complex symmetric weighted composition-differentiation operator on the Hardy space  $H^2$  with respect to the conjugation operator  $C_{\lambda,\xi}$ . The normal and self-adjoint of weighted composition-differentiation operators on the Hardy space  $H^2$  are also studied. We also give the results on  $S_{\alpha,\beta}^2$  and  $\mathcal{H}_1^2(\mathbb{D})$ .

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