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*A study on weighted composition operators on unit disk*

We consider the set  $\mathcal{W}$  of all weighted composition operators  $M_\psi C_\phi$  acting on the space  $\mathcal{A}$  of analytic functions on unit disk  $\mathbb{D}$ , and find necessary and sufficient conditions for a pair  $(f, g)$  of analytic functions which can separate operators in this set. We also investigate representation of these pairs in terms of univalent analytic (Schlicht) functions on unit disk in order to find a full characterization of these pairs. This is a joint work with Professor Peter Gibson from departement of Mathematics at York University.