

**Duality of the non reflexive Bergman space of the upper half plane  
and composition groups**

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We identify the predual of the non-reflexive Bergman space of the upper half plane, with the little Bloch space of the upper half plane consisting of functions vanishing at a point  $i$ . We then investigate both the semigroup and spectral properties of the adjoint groups of composition operators which are naturally obtained from the duality pairing and are therefore defined on the identified predual.

**Keywords:** Duality; Non-reflexive Bergman space; Bloch space; Composition semigroup; Infinitesimal generator; Spectrum; Resolvent.