

1035-11-1361 **Ozlem Imamoglu*** (ozlem@math.ethz.ch), Department of Mathematics, ETH Zurich, CH-8092 Zurich, Switzerland, and **Cormac O'Sullivan** (cormac12@juno.com), Department of Mathematics, Bronx Community College, New York, NY 10453. *On 2nd order Poincare series.*

Following Petersson, we study the parabolic, hyperbolic and elliptic expansions of holomorphic cusp forms and the associated Poincaré series. We show how these ideas extend to the space of second-order cusp forms. (Received September 19, 2007)