Abebaw Tadesse* (abt4@pitt.edu), 5721 Stanton Ave Apt.no. 4, Pittsburgh, PA 15206, Pittsburgh, PA 15206. \( \beta \)-bounded composition operators that belong to the Schatten Class \( S_p(H^2) \). Preliminary report.

In this work, for \( 0 < p < \infty \) and \( \phi \) a self-map of the unit disk \( D \) with \( \phi(D) \) a stolz domain, We use the D.H.Luecking and K.H.Zhu(1992)'s characterization of membership to the Schatten class \( S_p(H^2) \) to derive a neccessary condition inerms of \( \beta \) – boundedness(i.e an upper bound for the parameter \( \beta \geq 1 \)) for the induced composition operator \( C_\phi \) to be in the Schatten class \( S_p(H^2) \). This is an extension of my earlier result( which was presented in the AMS meeting, Atlanta(2005) and is currently in preparation to publication) which proves a necessary condition for \( C_\phi \) to be Hilbert Schmidt( \( S_2(H^2) \)). (Received September 09, 2005)