

1098-30-153

**Khim Raj Shrestha\***, 115 Carnegie Building, Syracuse University, Syracuse, NY 13244.

*Weighted Hardy Spaces.*

The classical notion of Hardy spaces has a long and venerable history. In 2008 Poletsky and Stessin introduced such spaces on hyperconvex domains in the paper *Hardy and Bergman spaces on hyperconvex domains and their composition operators*. In their definition Hardy space depends on (pluri)subharmonic exhaustion function of a domain and this new definition of Hardy space subsumes the old definition. For example for the classical case the exhaustion function is  $\log |z|$  or  $|z|^2 - 1$ . So even on the disc there is an abundance of Hardy Spaces. In our talk we will present their definition and show that most of the classical properties stay true for new spaces. (Received January 22, 2014)