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Sudeshna Basu* (sudeshna66@yahoo.com), Department of Mathematics, Morgan State University, Baltimore, MD 21251. *Schatten P -Classes in p -adic Hilbert spaces*. Preliminary report.

The Schatten P -classes are introduced in p -adic Hilbert Spaces. Its relation to Trace Class operators and Hilbert Schmidt Operators in p -adic Hilbert spaces is investigated in this paper. A comparative study of the Schatten p -classes in regular Hilbert spaces is also done. (Received August 06, 2005)