

1023-11-1304 **H A Verrill*** (verrill@math.lsu.edu) and **Heng Huat Chan**. *A family of K3 surfaces associated to a series for $1/\pi$* . Preliminary report.

The inspiration for this work are the series for $1/\pi$ given by Ramanujan. Our examples are related to the index two subgroups of the normaliser of $\Gamma_0(6)$ in $SL(2, \mathbb{Z})$, and corresponding families of K3 surfaces. The equations for these surfaces are used to determine coefficients for the series for $1/\pi$, via determining the Picard Fuchs equation. (Received September 25, 2006)