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**Colin J Ingalls\*** (cingalls@unb.ca), Department of Mathematics, Fredericton, NB E3B 5A3, Canada, and **Madeeha O'Connell**. *Azumaya algebras on K3 surfaces*. Preliminary report.

We discuss a derived equivalence of sheaves over Azumaya algebras on K3 surfaces induced by Fourier Mukai transforms. We show how to invert a particular example of Mukai's by using the moduli of Azumaya algebras on a K3 surface. (Received January 23, 2007)