

SPEAKER: Tim Huber (UT Pan American)

TITLE: On a differential system associated with Klein's quartic curve

ABSTRACT: A new coupled system of ordinary differential equations is derived for "septic" theta functions parameterizing F. Klein's quartic curve. The system is derived from several classical elliptic function identities used by Ramanujan in his famous proof of an analogous system for normalized Eisenstein series on the full modular group. This is joint work with UTPA student Danny Lara.