THE PULSAR AT THE HEART OF G11.2-0.3

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We report on the first \~6 months of monitoring of the young, energetic pulsar PSR J1811−1925 at the center of the historic supernova remnant G11.2−0.3, using the Rossi X-ray Timing Explorer. The observations allow, for the first time, an attempt at phase coherent timing, in an effort to determine this pulsar’s braking index, important for verifying that this pulsar is much younger than its characteristic age indicates. We also report on the results of X-ray spectroscopy of this neutron star whose pulsed emission can be seen out to energies $E > 20$ keV.