## T CrB

## Observation plan

- A single, 150 ks, TOO observation, to be triggered when the hard X-ray flux has recovered to the historical level.
- Trigger to be based on X-ray all sky monitors (Swift/BAT, MAXI) supplemented by pointed Swift/XRT observations. The estimated trigger probability is low (~0.2), based on its historical behavior.
- Once it returns to the X-ray bright state, T CrB is likely to stay bright for months or years; rapid reaction is not necessary.

## Immediate objectives

To measure the gravitational redshift of the 6.4 keV line from the white dwarf surface, and hence to measure the white dwarf mass. The gravitational redshift is a steep function of mass near the Chandrasekhar limit, so the accuracy to which mass can be determined is excellent in the most interesting case of a near-Chandrasekhar mass white dwarf. On the other hand, we cannot specify the accuracy to which we will measure the mass without knowing what the mass is.