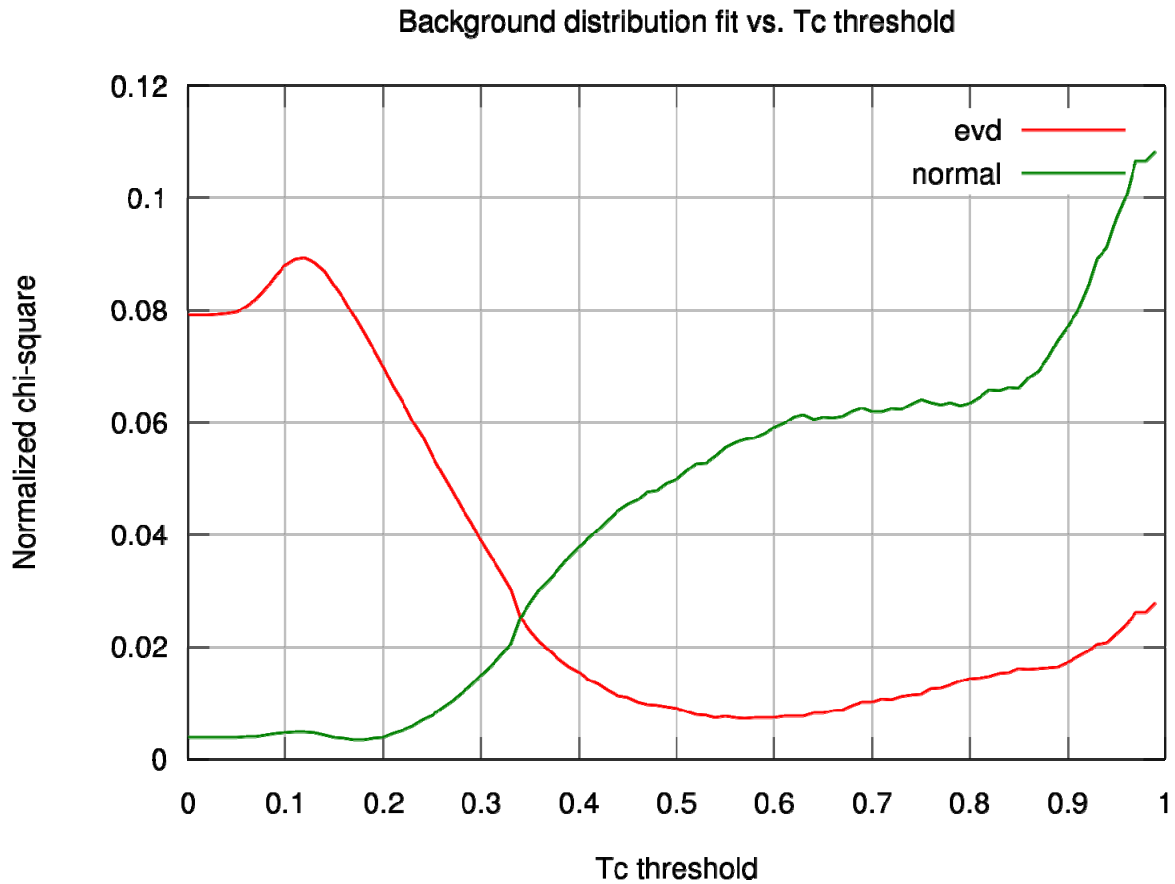


Supplementary Figure 5 Choice of threshold parameter



For each possible Tc threshold from 0 to 0.99, the best fit of the background Z-score distribution (as in **Supplementary Fig. 1c**) to a normal distribution (**green**) and to an extreme value (**red**) distribution was calculated. The goodness-of-fit criterion used was a normalized chi-square measure, as described in **Supplementary Table 5**. Any threshold above 0.35 Tc favors an EVD over a normal distribution, and this appears to be an inflection point for both distributions. The 0.55-0.65 Tc threshold region achieves the best EVD fits, with a 0.57 Tc threshold being optimal.