

- **diskpn: accretion disk, black hole, black body**

Blackbody spectrum of an accretion disk. This is an extension of the [diskbb](#) model, including corrections for temperature distribution near the black hole. The temperature distribution was calculated in Paczynski-Wiita pseudo-Newtonian potential. An accretion rate can be computed from the maximum temperature found. For details see Gierlinski et al., 1999, MNRAS, 309, 496. Please note that the inner disk radius (`par2`) can be a free parameter only close to `par2 = 6`; otherwise `par2` is strongly correlated with `K`.

<code>par1</code>	maximum temperature in the disk (keV)
<code>par2</code>	inner disk radius in $R_g = GM/c^2$ units, $6 \leq \text{par2} \leq 1000$
<code>norm</code>	$\frac{M^2 \cos i}{D^2 \beta^4}$ normalization, where $M$ = central mass (solar masses), $D$ distance to the source (kpc), $i$ inclination of the disk, and $\beta$ color/effective temperature ratio.