kyrline: black hole accretion disc line emission

Line emission from an accretion disc around a black hole. The broken power-law radial dependence and the limb darkening/brightening law for the emission directionality are used to define the local flux in the spectral line. All relativistic effects are taken into account, see Dovčiak M., Karas V. & Yaqoob T. (2004) ApJS, 153, 205-221.

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par1
         the black hole angular momentum (0 \le a/M \le 1)
         the observer inclination in degrees (0^{\circ} - \text{pole}, 90^{\circ} - \text{disc})
par2
         the inner edge of an accretion disc in GM/c^2
par3
         0 – means we always integrate from the disc inner edge, par3
par4
         1 – if the disc inner edge, par3, is below the marginally stable orbit
         then we integrate emission from above the ISCO only
         the outer edge of an accretion disc in GM/c^2
par5
par6
         the rest energy of the intrinsically narrow spectral line (keV)
         the inner power-law index for the radial dependence of the emissivity
par7
         that scales as r^{-par7} below the boundary radius, par9
         the outer power-law index for the radial dependence of the emissivity
par8
         that scales as r^{-par8} above the boundary radius, par9
         the boundary radius (in units of GM/c^2)
par9
         the overall Doppler shift
par10
par11
         defines the emission directionality:
         0 – isotropic emission (local flux \sim 1)
         1 – Laor's limb darkening (local flux \sim 1 + 2.06 \,\mu_e)
         2 – Haardt's limb brightening (local flux \sim \ln \left[1 + 1/\mu_{\rm e}\right])
         photons/cm<sup>2</sup>/s in the spectral line
norm
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KYRH (the black hole horizon, $r_{\rm h}$), KYRIN (the disc inner edge, $r_{\rm in}$) and KYRMS (the marginally stable orbit, $r_{\rm ms}$, ISCO) are added to the XSPEC internal switches. Use xset command to show their current values.