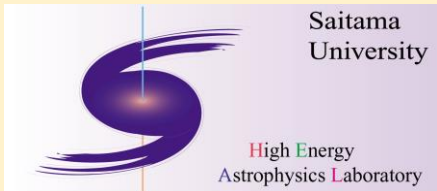


# Systematic studies of spectral break-up of solar flares in the hard X-ray band with the Suzaku HXD-WAM

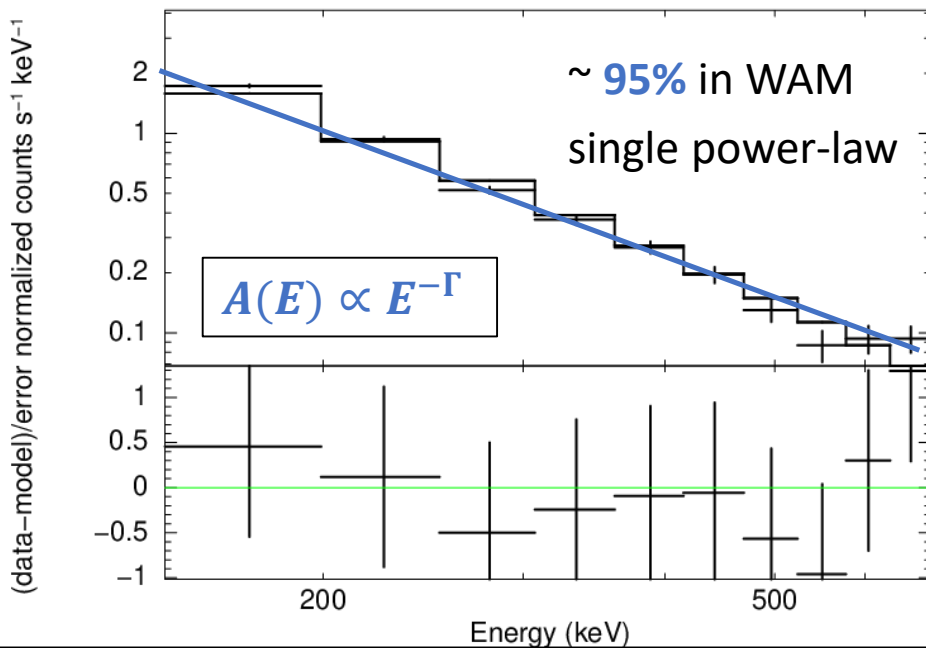
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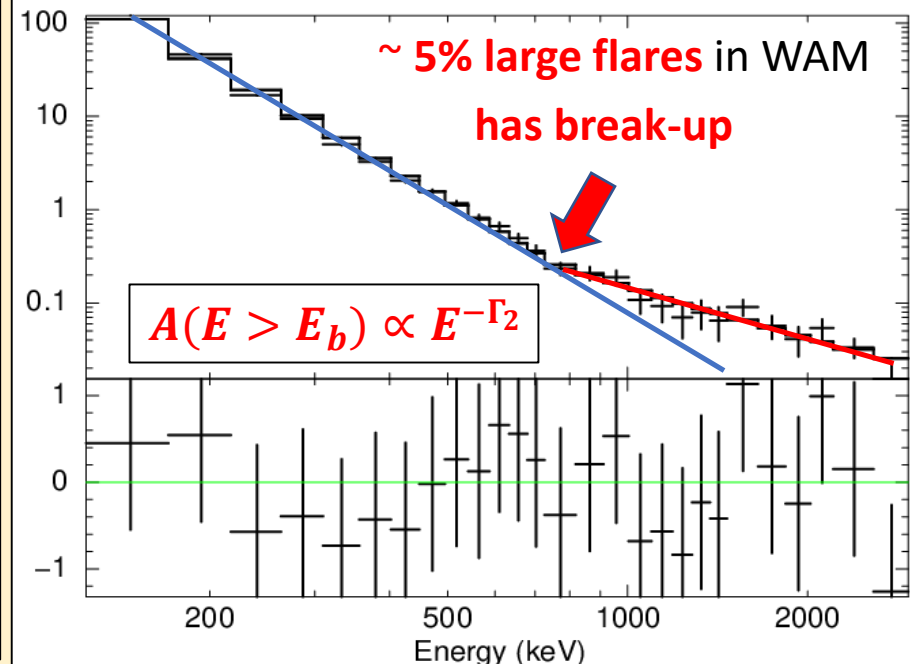


## Solar flare spectrum in hard X-ray band

**usual** spectrum with the Suzaku HXD-WAM



**break-up** spectrum with WAM



- **main components** :

non-thermal bremsstrahlung by accelerated electrons

- **break-up** may be caused by:

provide constraints on electron acceleration mechanism.

other components, e.g.,  $\gamma$ -ray lines, proton brems, ... etc.

or **intrinsic break-up of source electron?**

14 events are found to “not single power-law” with  
the *Suzaku Wide-band All-sky Monitor(WAM)*

*The properties of these flares are presented on P03*