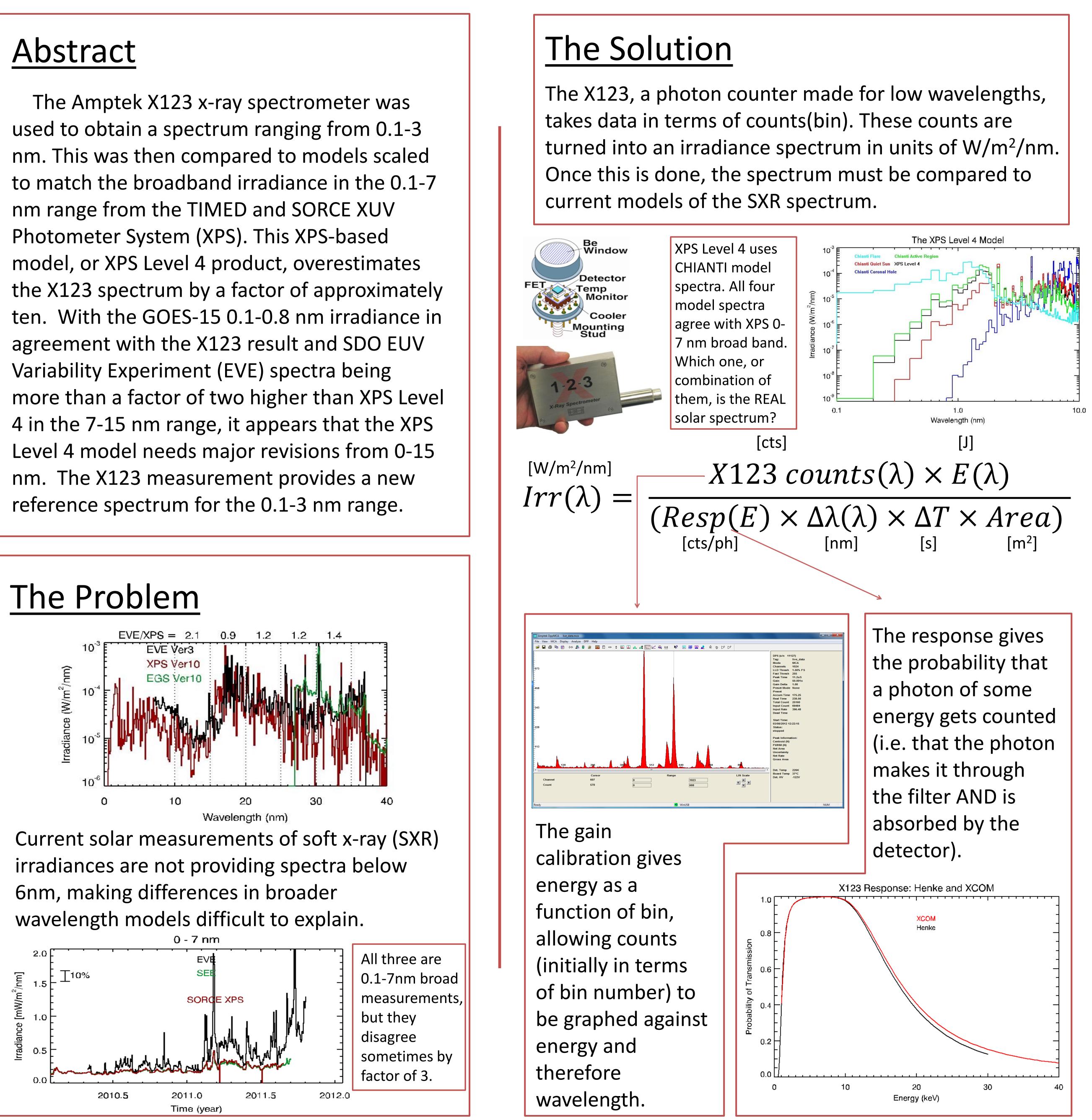


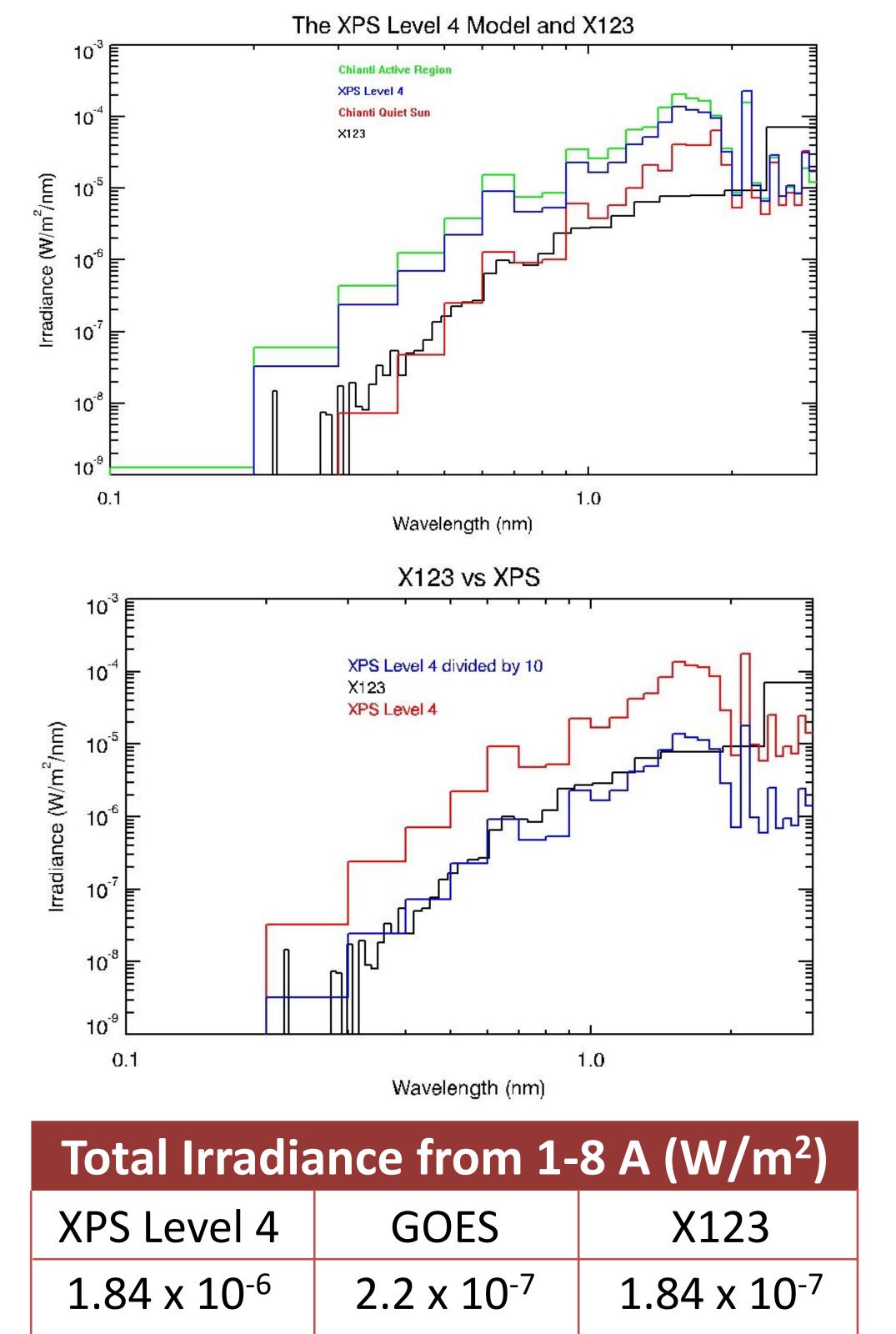
The Amptek X123 x-ray spectrometer was



# **Measuring the Solar Soft X-Ray Spectrum** Jordan Stone<sup>1</sup>, Dr. Tom Woods<sup>2</sup>, Dr. Amir Caspi<sup>2</sup> 1. University of Arkansas, Fayetteville, jrs016@uark.edu 2. LASP, Boulder, CO

### Results

The figures below show comparisons between X123 and the XPS Level 4 and Chianti models.



## Conclusion

- X123 provides a new reference spectrum for the
- 0.1-3 nm range
- X123 agrees well with GOES-15 0.1-0.8 nm
- **irradiance** (NOTE: GOES calibrated value = GOES web value / 0.7)
- X123 can be used to improve solar SXR models, such as CHIANTI, SRPM, FISM, NRLEUV, SIP

#### References

- Woods, T. N. et al., XPS L4 Irradiance Algorithm, Solar Phy., 249, 2008.
- 2. X123 Manual: 'DP5 Programmer's Guide A4', Amptek, Inc., 2012.



