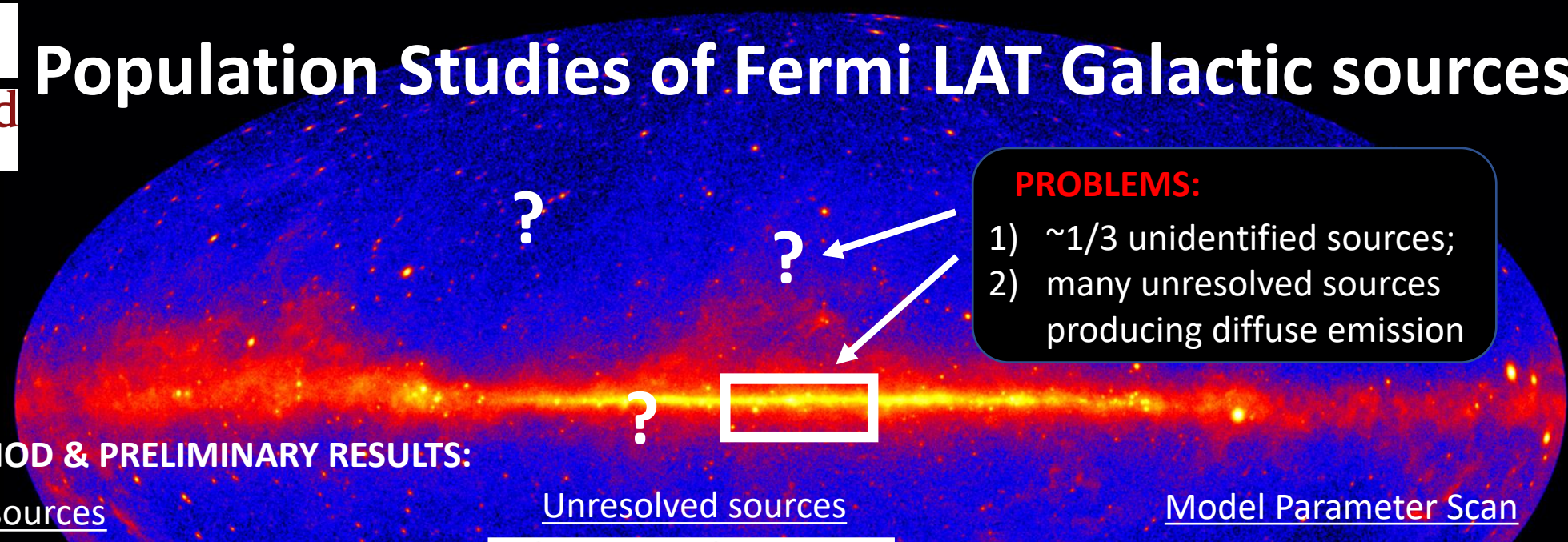


# Population Studies of Fermi LAT Galactic sources

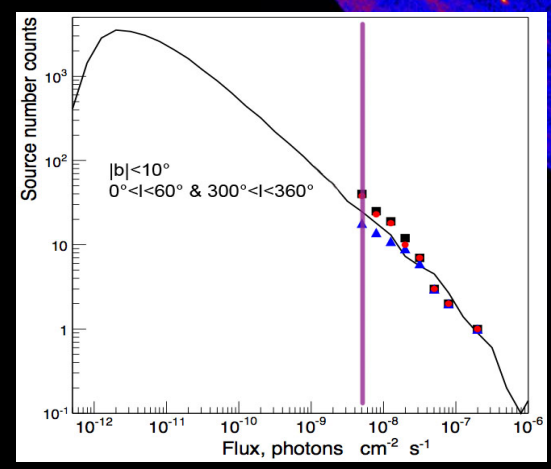


**PROBLEMS:**

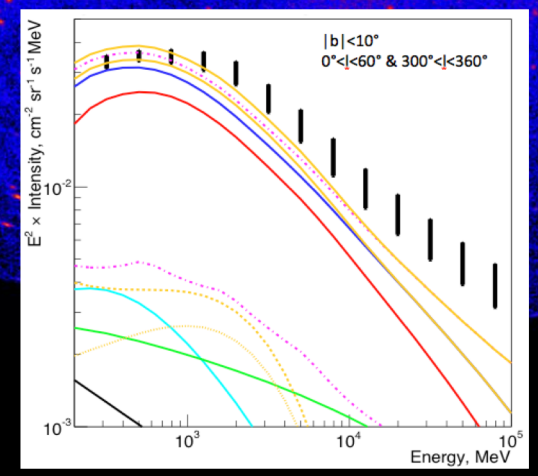
- 1) ~1/3 unidentified sources;
- 2) many unresolved sources producing diffuse emission

## OUR METHOD & PRELIMINARY RESULTS:

### Detected sources



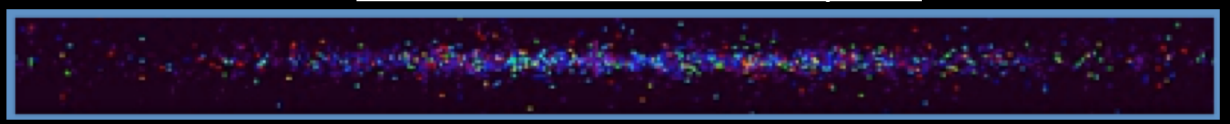
### Unresolved sources



### Model Parameter Scan

Density (pulsars/kpc <sup>3</sup> )	Min. Luminosity (photons/s)	Index of Luminosity	Log-likelihood
4	$1 \times 10^{36}$	-2.4	6
10	$1 \times 10^{35}$	-1.8	66
20	$1 \times 10^{34}$	-1.6	129
50	$1 \times 10^{34}$	-1.8	152
100	$1 \times 10^{33}$	-1.6	154
200	$1 \times 10^{33}$	-1.8	141

### Undetected Source Template



Acero et al. 2015 ApJS 218  
Ackermann et al 2013 ApJS, 209, 34  
Strong, A.W. 2007 Ap&SS, 309, 35