Noised, blurred nanoflare simulations from Klimchuck simulation

2019-04-09

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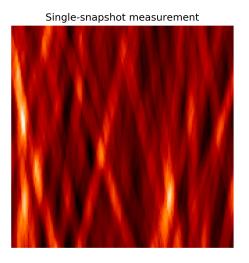


Figure 1: Simulated nanoflare.

- 33.4nm emission wavelength
- 1s integration time
- $50 \text{km} \times 50 \text{km}$ on Sun per pixel
- Image 160px x 160px : 8000km x 8000km on Sun total
- Line of sight depth: 40,000km
 Number of strands: 2000 ***



Figure 2: Nanoflare measured through photon sieve

• Same nanoflare parameters as above

• Sieve diameter : 10cm

Sieve sampling interval : 3.5e-6mSmallest hole diameter : 7e-6m

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Blurry photon sieve measurements at different noise levels. For each row, the images have been scaled so that the pixel with the largest photon rate is 10, 50, 100, 500 and 1000. All other parameters are the same as above. Dynamic range has been scaled separately for each image.

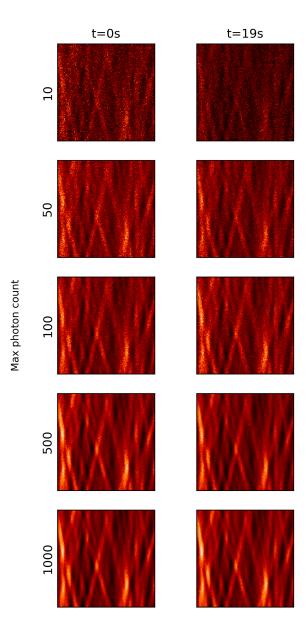


Figure 3: $\frac{3}{3}$