Abstract Submitted
for the MAS17 Meeting of
The American Physical Society

Nonthermal electron evolution in 3D at the rise phase of a 2002-04-12 dense solar flare. KEVIN TONG, ZHIZHUO ZHOU, NATSUHA KURODA, GELU NITA, GREGORY FLEISHMAN, NJIT — Utilizing the three-dimensional, multi-wavelength modeling platform GX Simulator, we modeled the nonthermal electron evolution of the rise phase of the 2002-04-12 dense solar flare using observations made by the Owens Valley Solar Array (OVSA). The resulting model reveals several overarching trends in the progression of the flare, with the loop gradually increasing in radius as the flare approaches peak intensity and nonthermal electron density rising before every incremental increase in the loop's volume.

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Date submitted: 26 Sep 2017 Electronic form version 1.4