

Studies on ELVES with PIPER detectors

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We present observations of elves using a ground-based, free-running photometer array called Photometric Imager of Precipitated Electron Radiation (PIPER). The PIPER photometer has a high (40 μ s) temporal resolution, making it ideal for studying fast TLEs such as elves. As a free-running instrument, it can record entire storms and there are no missed detections or sampling bias due to triggering. These photometers have observed thousands of elves during a number of summer campaigns in the American southwest. We present some relevant studies and statistics from these observational campaigns.

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