



Contribution ID: 27

Type: **Poster**

Measuring Soft X-Ray Variability During the First Sounding Rocket Flare Campaign

Monday, 24 May 2021 13:05 (40 minutes)

In March 2024, sounding rockets will be launched in response to a solar flare for the first time. The Hi-C Flare mission will be among the first to take advantage of this new observing campaign, which was instituted by the NASA Sounding Rocket Program Office in response to a 2019 white paper submitted by Winebarger, Glesener, and Reeves. A soft X-Ray radiometer in development at Montana State University is the smallest of three instruments that will fly on Hi-C Flare. We describe the motivation, prospects, and instrumentation for high speed (1 kHz) measurement of soft X-ray (SXR) variability in solar flares.

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Session Classification: Poster session: SQ1 and SQ2

Track Classification: Fast Release Mechanisms