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## Observations of Flare (and CME) onset

*Monday, 24 May 2021 14:10 (25 minutes)*

What happens in the solar atmosphere in the hours, minutes and seconds before a flare starts, and what is the relationship, spatial or otherwise, to the impulsive phase? Observational studies of flare onsets are relatively few compared to the later phases of a flare, but clearly we need to understand conditions both before and after the flare 'trigger' interval to be able to progress on particle acceleration, heating, instability and all of the other flare phenomena. I will review what is known observationally about flare onset, referring to CME onset where appropriate. Topics will include pre-flare heating, spectral line broadening, and the early appearance of faint flare ribbons.

**Primary author:** FLETCHER, Lyndsay (University of Glasgow)

**Presenter:** FLETCHER, Lyndsay (University of Glasgow)

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