

Talk at Splinter Meeting

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A BROAD VIEW ON SOLAR AND STELLAR ACTIVITY

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Stellar activity is ubiquitous among low-mass stars in the Galaxy. On the Sun, a plethora of activity-related phenomena such as sunspots, flares, the chromosphere, and the corona can be studied in great detail. Although highly diverse in appearance, these phenomena are all thought to be intimately related to the solar magnetic field. In my presentation, I discuss fundamental aspects of solar activity and how it relates to observations on other low-mass stars. Although some relations like the dependence of the activity level on stellar rotation and age have been studied for decades, open questions remain abundant in activity research. The discovery that active low-mass stars are also common planet host stars places further importance on understanding their activity and its impact on their planets.