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## Localized Heating and Dynamics in Coronal and Chromospheric Plasmas due to a Symbiosis of WAVes and Reconnection (SWAR)

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Dissipation of electric current due to magnetic reconnection provides a viable physical mechanism for the heating and dynamics of solar plasma. However, magnetohydrodynamic (MHD) waves may also contribute to its dynamics and heating. External wave-like perturbations may drive reconnection in the solar chromosphere and corona, but coalescing plasmoids in a reconnecting current sheet can also generate waves. We present and review our recent observations and numerical models which show how wave-like perturbations can help forming a localized current sheets in the solar atmosphere and thereby heat it. We also demonstrate how the energetics and dynamics of the large-scale corona can be influenced by waves emitted from reconnecting current sheets. Furthermore, we discuss the broad implications of such a Symbiosis of WAVes and Reconnection (SWAR) for chromospheric and coronal dynamics at disparate scales.

### Contribution Type

### Theme

Solar Magnetism in High-Resolution

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