Executive Summary

Electromagnetic and Neutrino Output from Magnetic Reconnection in Poynting Flux Dominated Jets.

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- We developed a **leptonic-hadronic** blazar emission model based on particle acceleration by **magnetic reconnection,** employing the **striped jet model**.

- The emission is powered by **magnetic dissipation** in the jet, in the transition from **magnetically to kinetically dominated** flow, which is compatible with test particle CR acceleration in RMHD jet simulations of reconnection driven by kink instabilities.

- We find **good agreement** of the model discussed here in interpreting the 2017 neutrino event from the blazar **TXS 0506+056** as shown by a **preliminary SED fit**.