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Title: Star Tickling: Searching for Signals from Extraterrestrial Civilizations
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Abstract: An advanced civilization trying to communicate with us might shift the power burden to a nearby variable star (see "The Cepheid Galactic Internet," Learned, Kudritzki, Pakvasa, and Zee <http://arxiv.org/abs/0809.0339>). Slight perturbations imposed on the unstable stellar interior could alter the timing of luminosity peaks acting, much as a telegraph key, to send powerful omnidirectional signals. We are mining the collection of 165,345 stellar light curves obtained by the Kepler observatory for gems -- very regular periodic stars -- that might harbor such signals. Results will be presented. This is a report of on-going work in collaboration with Lucianne Walkowicz, Ed Turner, Victoria Meadows, and Tony Zee