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Title: Fine Structure in the Architectures of Kepler Systems
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Abstract: Kepler's multiplanet systems allow unprecedented insights into the architectures and dynamics of the inner parts of planetary systems. From Kepler data, for example, we see prominent features of excess planet pairs near mean-motion resonances. I present the results of recent investigations into some of the details of Kepler system architectures. Of particular interest are statistically significant dependence of the period ratio of planet pairs on both the number of planets observed in a system and on the orbital distance of that pair from their host star. Each of these observations indicate some difference in either the formation history or the dynamical evolution of these systems.