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Assessing the impact of stability on occurrence rates of inner planets with outer giant companions

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The dynamical stability of planets with outer giant companions depends on the parameters of the outer companion(s). The inclusion of constraints from stability in the calculation of detection limits can in principle help rule out regions of parameter space where inner planets could not exist in individual systems. We will present preliminary results from a project where, using a synthetic planet population, we compare the use of data-driven detection limits and dynamical detection limits, quantifying the impact on occurrence rates of inner planets given the presence of outer giants.

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Session Classification: Cold Jupiters AND inner low-mass planets (individual systems and statistical analyses) - outside-in