



A planetary system for Beta Pictoris?

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Observations of the disc of Beta Pictoris have revealed a large variety of structures (global asymmetries, warps, belts, rings) and dynamical phenomena ("falling-evaporating bodies" or FEBs and the "beta Pic dust stream"). They may indicate the presence of one or more planets orbiting the star. Because those planets have not been detected by observations yet, we use dynamical simulations to find "numerical evidence" for a planetary system. We find that already one planet at 12 AU with a mass of 2 to 5 jupiter masses and an eccentricity smaller or equal 0.1 can probably account for three major features (main warp, two inner belts, FEBs). Also, it seems likely that at least two additional planets exist at about 25 AU and 45 AU from the star. For those planets we find rather strong upper limits of 0.5 and 0.1 jupiter masses.