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TITLE: Flux of icy asteroids towards the habitable zone in binary stars

ABSTRACT BODY:

Abstract Body: From studies of habitability in our solar system we can conclude that a fraction of the water on Earth was transported via asteroids and comets to our planet. Assuming that other planetary systems would need similar water-bringing-scenarios we studied the efficiency of the water transport in binary star systems where we considered S-type planetary motion. We will show a detailed analysis of the dynamical perturbations in the disk for different binary-planet configurations and analyse the efficiency of water transport via icy asteroids into the circumstellar habitable zone.

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