**Homework 8**

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**Part 1**

**Abstract**

Ongoing and future space missions aim to identify potentially habitable planets in our Solar System and beyond. Planetary habitability is determined not only by a planet’s current stellar insolation and atmospheric properties, but also by *its climate transition*. It has been suggested that icy planets and moons become habitable after their initial ice shield melts as their host stars brighten. Here we show using *XX Method* that *icy world can shift from snowball to moist and runaway greenhouse abruptly*. *Additionally, we use a theoretical model to explain this transition and get self-consistent results*. Specifically, *we find that the water content of this icy world is suitable for humans after the transition*. These results suggest *a new range of habitable planets*.

**Part 2**

* 1. For each title, count the number of words.
  2. For each title, does the title include an acronym (yes/no)?
  3. For each title, is there a colon or semicolon that splits the title (yes/no)?

Article 1

a. 4 words

b. No

c. No

Article 2

a. 9 words

b. No

c. No

Article 3

a. 5 words

b. No

c. No

Article 4

a. 7 words

b. No

c. No