

---

# An analytic approach for central configurations

Kuo-Chang Chen<sup>\*1</sup>

<sup>1</sup>National Tsing Hua University – Taiwan

## Abstract

Self-similar solutions for the n-body problem, whose configurations are called central configurations, are of special importance in celestial mechanics. Many mathematical tools have been applied to this ancient problem in the hope to understand their geometric properties, stability, finiteness, and the existence of certain classes of central configurations. In this talk we propose another analytic approach, which we hope to provide a different perspective for the problem.

---

<sup>\*</sup>Speaker