

# THE HELIO 100 CME CHALLENGE

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### **Abstract**

This Challenge will focus on using HELIO to study the origin, propagation and impacts of a large number of Coronal Mass Ejections (CMEs) in the Heliosphere. HELIO provides an interface that allows researchers to track active regions as they evolve and produce solar flares and CMEs. Once launched, CMEs can be tracked in coronagraph and heliospheric images. Their impacts throughout the Heliosphere can then be measured using in-situ instruments from a number of spacecraft throughout the Heliosphere. The aim of this Challenge is to use HELIO to track a large number of CMEs (e.g., 100) from the surface of the Sun to their effects through interplanetary space and at the planets.

### **1. Introduction**

### **2. Building a workflow**

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<sup>1</sup> First affiliation email: e.mail-a email: e.mail-b

