

# ER-flow Application Description Template

<b>Application Name:</b> Finding when the fastest type II CME should be detected throughout the heliosphere
<b>Application domain:</b> Heliophysics
<b>Brief application description</b> (explain implemented function, inputs, outputs, usage)  The fastest CME is found from an interval of time, and propagated to Earth, in two steps, first to obtain the Solar wind speed at Earth and then propagated again with a more reasonable CME speed. The output produces Min-Max ETAs for each object in the heliosphere and the plots of the final propagation model.
<b>input data format:</b>  <b>time_stop</b> (String) End time of the interval of interest <b>time_start</b> (String) Starting time of the interval of interest
<b>output data format:</b>  <b>List of planets and instruments</b>  sample data: NA application <a href="http://www.myexperiment.org/workflows/3262.html">http://www.myexperiment.org/workflows/3262.html</a> documentation <a href="http://www.myexperiment.org/workflows/3262.html">http://www.myexperiment.org/workflows/3262.html</a> publication NA
<b>Execution environment</b> DCI: NA middleware: NA <span style="float: right;">workflow system: TAVERNA 2</span>
<b>Execution characteristics</b> data size (per unit, typical number of units): input NA <span style="margin-left: 100px;">temporary NA</span> <span style="float: right;">output NA</span> processing time (per unit): NA memory usage: NA <span style="float: right;">disk usage: NA</span>
<b>Target users</b> Community, projects: (link) <span style="float: right;">number of users: 0-10</span> <a href="http://www.myexperiment.org/groups/101.html">http://www.myexperiment.org/groups/101.html</a>
<b>Usage scenario for workflow in ER-FLOW</b>  Single Workflow for end user to be invoked either through the Shiwa Simulation Platform or through specific User Interface or ASM.
<b>Contact information</b> (author) name: Dr. David Perez Suarez e-mail: dps.helio@gmail.com
<b>Contact information</b> (porting) name: Dr. Gabriele Pierantoni e-mail: pierang@cs.tcd.ie