

# HEK database: solar events using VOEvent

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The SPoCA-suite provide two modules, one for Active Region (AR) detection, and one for Coronal Holes(CH) detection, to the SDO Event Detection System (EDS). It runs in near-real times at Lockheed Martin Solar and Astrophysics Laboratory. Every four hours, the EDS generates and uploads the SPoCA entries into the AR and CH Catalogs of the HEK or Heliophysics Events Knowledgebase.

The VOEvent standard of 2006 is used in the HEK. In this talk, we analyze the provenance information that is encoded in the field of the VOEvent for the SPoCA-AR and SPoCA-CH event, and discuss how this information could be completed or reorganized in view the proposed provenance data model.

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**Classification de Session:** Use cases and requirements within projects