



## **Statistical study of solar filaments since 1919**

Jean Abouardham

Observatoire de Paris, LESIA - PADC, Meudon, France (jean.abouardham@obspm.fr)

Science board of Paris Observatory funded the data capture of tables associated with Meudon synoptic maps of Solar activity, which were published for observations ranging from 1919 to 1992. The EU HELIO project developed automatic recognition codes, especially concerning filaments based on observations between 1996 en 2014 (and soon, up to now). We plan to fill the gap between the two catalogues in the short term. But it is already possible to study filaments behavior over quite long periods of time.

We present here the first series of results obtained from this analysis which give some clue about the way Solar activity behaves in various parts of the cycle, and about the way it depends on the hemisphere where activity occurs. This information could then be correlated with events catalogues (e.g. flares, CMEs, ...) in order to link those phenomena with concrete Solar activity.