Dansk Fysisk Selskab

Contribution ID: **5** Type: **not specified**

Detailed look at the stellar surface using SONG

The existence of cool starspots on sun-like stars has been known for more than five decades based on photometric observations. The development of observing and analysis techniques that has occurred during the past three decades has also enabled us to map in detail the starspot configurations on other stars than the Sun. Here, we will present detailed stellar surface maps of the cool giant star sigma Geminorum. The maps have been obtained from high resolution spectra obtained by the Danish-led Hertzsprung SONG telescope at the Teide Observatory on Tenerife, Spain. The data covers seven consecutive rotations and can be used for analysing in detail the starspot configurations and their evolution during this time.

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