GYRSAMM

GYula Solar Magnetic Activity Monitor Solar Telescope

Framework







Italian National Institute for Astrophysics

> Rome Astronomical Observatory

Scientific counselor for the project: > software development of MOF part; > MOF development; > tests.

The SAMM instrument



MOF filters



Concept: prof. A. Cacciani (1968)

MOF cell: a glass cell containing a vapourised element (Na, K,...) immersed in a strong longitudinal magnetic field

> Zeeman effect Macaluso-Corbino effect Righi effect



Splitting of absorption lines and (opposite circular) polarisation of the two components

2 MOF cells + prefilter + polarisers + waveplates:

dopplergram/magnetogram in 1 absorption line

Past projects

A few MOF telescopes have been built and deployed in the past.

Generally very good MOF cells...

... but rest of construction has often suffered from less than ideal manufacturing.

And yet...



