

Granulation and oscillations of the solar atmosphere.

Smithsonian Institution - Trapped gravity waves and the five

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Sun. Granulation and oscillations of the solar atmosphere.

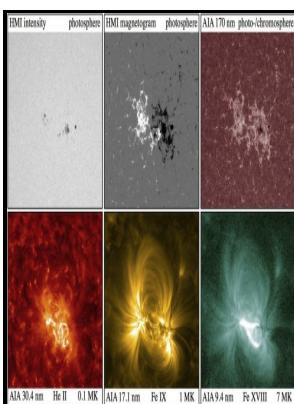
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Smithsonian contributions to astrophysics, Granulation and oscillations of the solar atmosphere.

Notes: Bibliography: p. 376.

This edition was published in 1958



Tags: #THE #SOLAR
#GRANULATION #(Journal #Article)

Trapped gravity waves and the five

The active parts of the Sun are also source of the oscillations; the most prominent one. The origin of the oscillations was believed to be in the sub-photosphere, yet connected with the processes in the convection zone. We show that the motions of supergranules are consistent with a model in which they are simply advected by the axisymmetric flows in the Sun's surface shear layer.



Filesize: 31.109 MB

The Solar Granulation

The amplitude of motion of the convective material decreases from 0. Doppler shifts of up to 9 km s⁻¹ are observed at the edges of bright granules, demonstrating that the flows reach supersonic speeds.

Granulation and oscillations of the solar atmosphere. (1958 edition)

Big Bear Solar Observatory - Oscillations Solar Oscillations The oscillations appear all over the Sun. The right panel presents the power of the global solar oscillations.

Trapped gravity waves and the five

Supersonic flows are expected to produce shocks at the boundaries between granules and intergranular lanes, and may also play a role in the emergence of small-scale magnetic fields in quiet-Sun internetwork regions.

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