



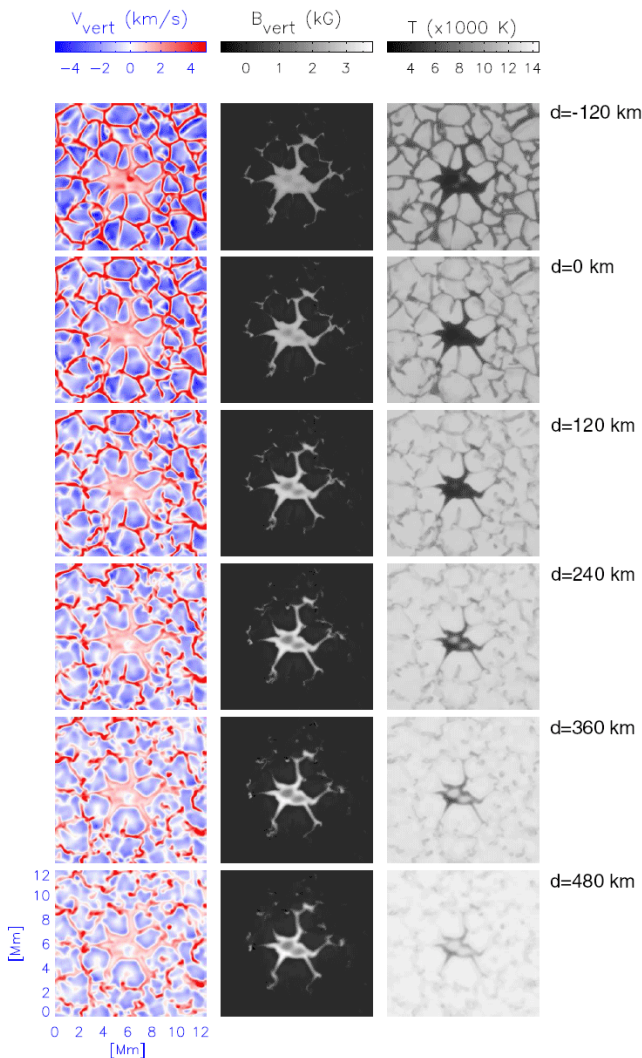
## HIGHLIGHTS: this week in A&A

Volume 474-1 (October IV 2007)

### Simulations of solar pores

"Radiative magnetohydrodynamic simulations of solar pores" by R. Cameron, M. Schussler, A. Vögler, and V. Zakharov, *A&A* 474, p. 261

Solar pores are a kind of small sunspot without a penumbra. This paper describes a first exploratory simulation of such a structure in a 3D MHD simulation accounting for radiative transfer. Therefore this sets a landmark towards the goal of finally understanding a whole sunspot.



### Star-gas decoupling and dwarf galaxy formation

"Star-gas decoupling and a non-rotating stellar core in He 2-10. Integral field spectroscopy with FLAMES/ARGUS" by T. Marquart, K. Fathi, G. Östlin, N. Bergvall, R. Cumming, and P. Amram, *A&A* 474, p. L9

This is a 2D spectroscopic study of the merger-remnant dwarf galaxy He2-10 with FLAMES/VLT. It shows that the gas and stellar kinematics are decoupled. Although there is evidence of rotation in the gas, the stars are not rotating; they are instead only sustained by velocity dispersions, as in elliptical galaxies. The authors suggest that the object will become a nucleated dwarf elliptical. This object is therefore a prototypical example, highlighting the scenarios of dwarf galaxies formation.

