

Data driven modeling

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To reproduce the dynamical evolution of active regions in the Sun, it is required to use more realistic models. To a lowest order the magnetic field may be represented by simple field extrapolations based on the photospheric magnetic field distribution. This has been standard for many years. To reproduce the evolution of the magnetic field, a correct representation of the boundary stressing has to be imposed. This represents the difficult part of the project that needs to be improved. Here we show a preliminary result from a direct data driven experiment of an active region.

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