## Magnetic structure of active regions

Edward E. DeLuca
Harvard-Smithsonian Center for Astrophysics

Aad van Ballegooijen

CfA

Antonia Savcheva

CfA; Boston University

Yingna Su

CfA

**Abstract.** A review of Non-Linear Force Free Field models of active regions observed with Hinode XRT, SOHO and SOLIS will be presented. We will discuss the basic method, results and examples of the time evolution as seen in a sequence of steady state solutions. Future uses of magnetic field models will also be discussed.