

Dynamic Models of the Corona Confronted to Observations

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Over recent years 3D MHD models allowed the reproduction of realistically-looking coronae. The models do provide not only the temperature, density, velocity and magnetic structure, but also allow to synthesize coronal emission – to be compared to observations of the real Sun. Confronted to numerous observational results, such as Emission measure, Doppler shifts, or the variability of individual structures these models gave many good matches. Ultimately, these comparisons provide a crucial test, if the spatial and temporal distribution of the energy input into the corona as resulting from the models is realistic, at least on the scales resolved by current models and observations. New observations with HiC and IRIS add new observational constrains that provide challenges for future models.