
Plasma properties in eruptive prominences

Nicolas Labrosse^{*†1}

¹University of Glasgow (Glasgow Univ.) – Glasgow G12 8QQ Scotland, United Kingdom

Abstract

Prominence eruptions are one of the most spectacular manifestations of our Sun's activity. Yet there is still some mystery around their relevant physical conditions. What are their plasma parameters? How different are they from those of quiescent prominences? How do they relate to those within coronal mass ejections? I will briefly review some recent results which contribute to our knowledge of the plasma properties in eruptive prominences, with a slight emphasis towards advances in modelling. In particular I will discuss how non-LTE radiative transfer modelling, combined with observational data analysis, can help us achieving this goal. Open issues will be discussed.

Keywords: plasma properties, eruptive prominences, CMEs

*Speaker

†Corresponding author: Nicolas.Labrosse@glasgow.ac.uk