

**Title: From X-ray observations of solar flare energetic electrons, to new models of particle acceleration and transport**

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**Abstract:** Recent hard X-ray observations of solar flares, notably with RHESSI, has provided a wealth of high quality data to analyse. In the talk, I will discuss the new advanced analysis techniques which help us to improve the measurements of the energetic electrons in solar flares and how these new measurements affect our understanding of solar flare electron acceleration and transport.