

Celebrating 20 years of Swift Discoveries



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The BOAT that rocked: the radio afterglow of GRB 221009A

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GRB 221009A has been dubbed the BOAT or brightest of all time for its recording-breaking gamma-ray brightness. At radio frequencies, it also holds the record as the brightest counterpart detected to date. In this talk, I will present a summary of the observations conducted by my collaborators and I (Bright & Rhodes et al 2023, Rhodes et al 2024), resulting in the most comprehensive radio coverage of any GRB to date, spanning over three orders of magnitude in frequency space. Our studies have resulted in numerous interesting discoveries including a long-lived synchrotron self-absorbed reverse shock as well as a flat spectrum extending up to sub-mm frequencies which cannot be explained within the 'standard' afterglow picture. I will discuss the importances of such coverage for our understanding of jet geometry and theoretical modelling. Finally, I hope to present a brief overview of our plans to continue monitoring this fascinating object.

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