On Brauer trees in blocks of finite groups of Lie type
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The context for this talk is the following question: Which Brauer trees occur as $p$-blocks of finite quasisimple groups? Thanks to the miraculous compatibility of Lusztig’s character theory with Brauer’s theory of $p$-blocks and to the cumulative contributions of many mathematicians over the last four decades, a big part of the picture for finite quasisimple groups of Lie type has been filled in. I will report on ongoing work with David Craven on the remaining case, namely the case of non-unipotent blocks.