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Displacement Maps in Taylor impact using Speckle Radiography C.H. BRAITHWAITE, W.G. PROUD, S.G. GRANTHAM, Physics and Chemistry of Solids Group, Cavendish Laboratory, UK — A method was developed using the small gas gun facility at the Cavendish Laboratory, (Cambridge University) to determine the internal displacement characteristics of a polymer rod undergoing asymmetric Taylor impact. Using a layer of lead filings and Digital Speckle Radiography it was possible to build up a displacement map. It is hoped that this technique could be used to derive material properties such as yield strength.

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