TWISTOR NEWSLETTER No. 31

Contents

Mass Positivity from Focussing and the Structure of $i^0$.
   A. Ashtekar & R. Penrose .............. 1

   R. Penrose ........................ 6

A measurement process in a stationary quantum system.
   D. Deutsch ........................ 9

Twistor regularisation for ultra–violet divergences.
   A.P. Hodges ........................ 14

Preferred parameters on curves in conformal manifolds.
   T. Bailey & M. Eastwood ............ 19

Self–dual manifolds need not be locally conformal to Einstein.
   T. Bailey & M. Eastwood ............ 21

Families of invariants.
   A.R. Gover .......................... 23

A multiplicity one theorem for the Penrose transform.
   R. Baston .......................... 27

A spinor formulation for harmonic morphisms.
   P. Baird & J.C. Wood ............... 29

Abstracts

   R. Baston ...................... 5,24,25,26

   M.G. Eastwood & C.R. Graham ...... 38

Short contributions for TN 32 should be sent to

   Klaus Pulverer,
   Editor, Twistor Newsletter,
   Mathematical Institute,
   24-29 St. Giles,

to arrive before 25th February 1991.