

DESCRIPTION OF PROPOSED WORK

Over the last five years the Madrid–Lecce group and the twistor group have developed two alternative approaches to dispersionless integrable systems: dispersionless \bar{d} -bar formalism, and minitwistor formalism respectively. There are similarities (e.g extensive use of complex analysis) but it is currently unclear how to reconcile the two methods. The aim of my visit is to initiate collaboration between the two groups. Initially we intend to concentrate on 2+1 dispersionless equations of hydrodynamic type which underlie hyperCR Einstein–Weyl theory, and on twistor formulations of Whitham hierarchies.

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