

ICTS Seminar

Title : Constructing the BMS Bootstrap

Speaker : Arjun Bagchi, Indian Institute of Technology Kanpur, Uttar Pradesh

Date : Tuesday, August 22, 2017

Time : 2:00 PM

Venue : Nambu Discussion Room (Right), ICTS Campus, Bangalore

Abstract : We elaborate on aspects of the recently introduced BMS bootstrap programme. We consider 2d field theories with BMS3 symmetry and extensively use highest weight representations to uncover the BMS version of crossing symmetry in 4-point functions that are constrained by symmetry. The BMS bootstrap equation is formulated and then analytic expressions for BMS blocks are constructed by looking at the limit of large central charges. These results are also applicable to 2d Galilean Conformal Field Theories through the isomorphism between the BMS3 and 2d Galilean Conformal Algebras. We recover our previously obtained results in the non-relativistic limit of the corresponding ones in 2d relativistic CFTs. This provides a comprehensive check of our previous analysis.