

Algebras of connections on symmetric spaces by Jonatan Stava

Abstract

Symmetric spaces are equipped with a connection which is torsion free ($T=0$) and has constant connection ($\nabla R = 0$). This gives rise to an algebra we call LATA (Lie Admissible Triple Algebra).

A goal is to find a nice representation of this algebra, and compute the dimensions of its graded components. We will present a snapshot of work in progress.