

We present a general method for the calculation of correlation functions and inner products in Richardson-Gaudin models. These follow from inner products in such models, which can be represented as determinants in several different ways (including the Slavnov determinant). It is shown how these determinant representations are all interconnected and can be expressed in terms of Cauchy matrices. This framework provides a further connection between two different approaches for such integrable models, one in which everything is expressed in terms of rapidities satisfying Bethe equations, and one in which everything is expressed in terms of the eigenvalues of conserved charges, satisfying quadratic equations.