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*Many-body scattering and symmetric spaces*

I will talk about the use of methods from many-body scattering in the study of the Laplacian on higher rank symmetric spaces. I focus on the relationship of three-body scattering and  $SL(3, R)/SO(3, R)$ . I will describe the asymptotics of the Green's function at infinity (Taylor series at infinity), extending results of Anker, Guivarch, Ji and Taylor. I also describe the analytic continuation of the resolvent in the spectral parameter through the continuous spectrum. The new results presented are joint work with Rafe Mazzeo.