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**Sigurdur Helgason\*** ([helgason@mit.edu](mailto:helgason@mit.edu)). *Eisenstein Integrals and C functions.*

In Harish-Chandra's work on semisimple  $G$  his  $c$ -function expressed the density of the Plancherel formula for the spherical transform on  $G$ . Two individual factors in the formula for  $c$  express analytic results for the symmetric space  $G/K$  and the horocycle space  $G/MN$ . Each irreducible representation of  $K$  gives rise to an Eisenstein Integral and accompanying  $C$  functions. Here we describe some results and conjectures for these  $C$  and relate these to work of L. Cohn. (Received September 15, 2016)