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Nils Byrial Andersen* (byrial@imf.au.dk), Department of Mathematics, Aarhus University,
Ny Munkegade 118, Building 1530, DK-8000 Aarhus, Denmark. *Cusp Forms on hyperbolic spaces.*

Cusp forms on a group G can be defined as the kernel of certain Radon transforms on G . Cusp Forms on real reductive Lie groups G were introduced by Harish-Chandra, who also showed that they coincide precisely with the discrete part of the spectral decomposition of the space of square integrable functions on G .

Flensted-Jensen recently proposed a new family of Radon transforms and associated Cusp forms on Reductive Symmetric Spaces, which in the group case reduces to the definition of Harish-Chandra. We will in this talk discuss Cusp Forms on Hyperbolic Spaces, in particular the existence of non-cuspidal discrete series.

This is joint work with Mogens Flensted-Jensen and Henrik Schlichtkrull. (Received September 19, 2011)