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H Gimperlein, B Krötz, J Kuit and H Schlichtkrull* (schlicht@math.ku.dk). *On the Helgason conjecture.*

The Helgason conjecture, which was proved by Kashiwara et al in 1978, asserts for a Riemannian symmetric space G/K that every joint eigenfunction of the invariant differential operators can be represented as the Poisson integral of a hyperfunction on the boundary G/P . An extension of the theorem in terms of globalizations of Harish-Chandra modules was established by W. Schmid in 1985. The talk concerns a quantitative interpretation of Schmid's extension, which also leads to a simplified proof of the original conjecture. (Received January 25, 2022)